

定格表 RATINGS

項目、 Item	記号 Symbol	条件 Conditions	品名 Type No.		単位 Unit
			D10SC3M D10SC3MR	D10SC4M D10SC4MR	
保存温度 Storage Temperature	Tstg		-40 ~ +125		°C
接合部温度 Operating Junction Temperature	Tj		+125		°C
せん頭逆電圧 Maximum Reverse Voltage	V _{RM}		30	40	V
繰り返しせん頭サージ電圧 Repetitive Peak Surge Voltage	V _{RRSM}	パルス幅0.5mS, duty 1/40 Pulse width 0.5mS, Duty cycle 1/40	35	45	V
出力電流 Average Rectified Forward Current	I _O	50Hz正弦波, 抵抗負荷, 1素子当りの出力電流 平均値 I _O /2, T _c =102°C 50Hz Sine wave, R-load, Rating for each diode=I _O /2, T _c =102°C	10		A
せん頭サージ順電流 Peak Surge Forward Current	I _{FSM}	50Hz正弦波, 非繰り返し 1 サイクルせん頭値, T _j =125°C 50Hz Sine wave, Non-repetitive 1 cycle peak value, T _j =125°C	100		A
絶縁耐圧 Dielectric Strength	V _{dis}	一括端子・ケース間, AC 1 分間印加 Terminals to case, AC 1 Minute	1,500		V
締め付けトルク Mounting Torque	TOR	(推奨値: 3 kg·cm) (Recommended torque: 3 kg·cm)	5		kg·cm
順電圧 Forward Voltage	V _F	I _F =5 A, パルス測定, 1素子当りの規格値 I _F =5 A, Pulse measurement, Rating of per diode	MAX 0.55		V
逆電流 Reverse Current	I _R	V _R =V _{RM} , パルス測定, 1素子当りの規格値 V _R =V _{RM} , Pulse measurement, Rating of per diode	MAX 3.5		mA
電氣的・ 熱的特性 T _c =25°C	熱抵抗 Thermal Resistance	θ _{jc}	接合部・ケース間 Junction to case	MAX 3.3	°C W
		θ _{cf}	ケース・フィン間, 締め付けトルク: 3 kg·cm Case to heatsink, Mounting torque: 3 kg·cm	1.5*	
		θ _{jf}	接合部・フィン間 Junction to heatsink	4.8*	

*印 参考値

* Reference value

特長 Features

- 導電部が露出しない絶縁に有利なニューパック形状
- 逆特性に優れ高信頼性
- 逆回復時間が早い
- 順方向電圧降下が小さい
- スイッチングノイズが小さい
- UL94, 94V-O 適合のレジンモールドを使用
- Fully insulated new package, replacable standard TO-220 package.
- Excellent reverse characteristics and high reliability.
- Fast reverse recovery time.
- Small forward voltage drop.
- Low switching noise.
- UL (UL94,94V-O) meet resin mold.

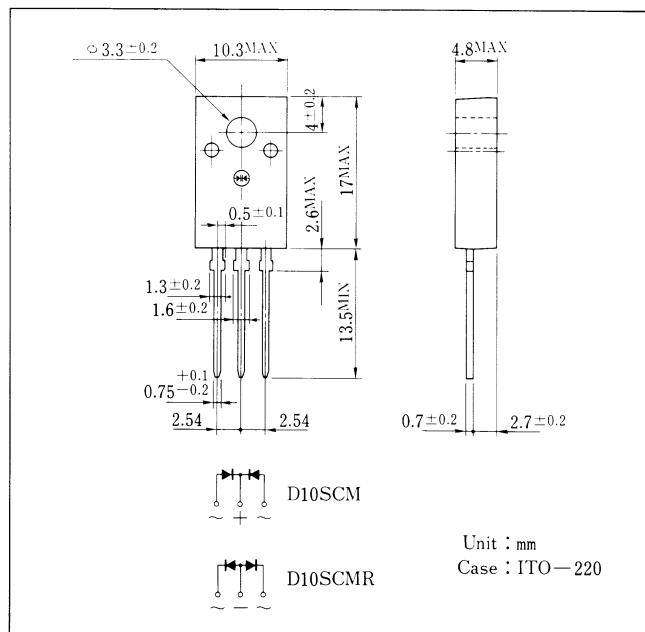
用途 Applications

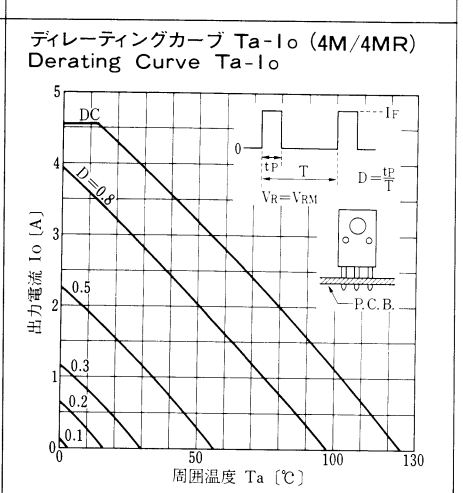
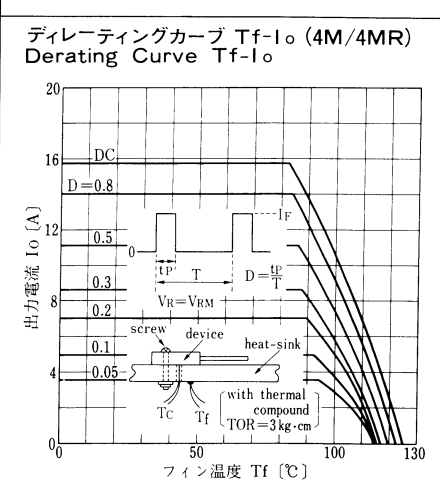
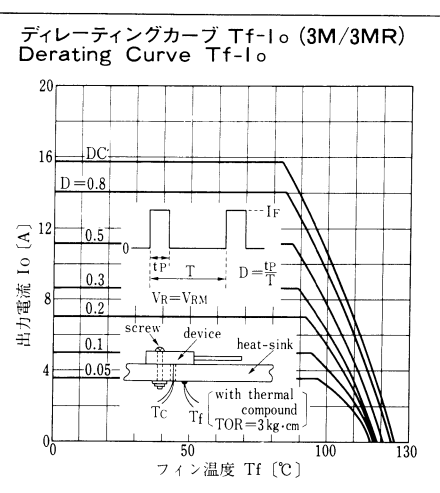
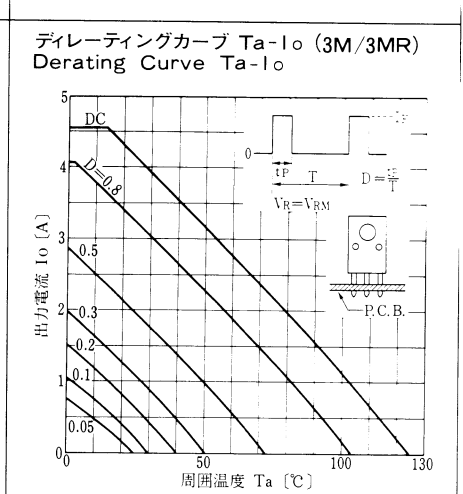
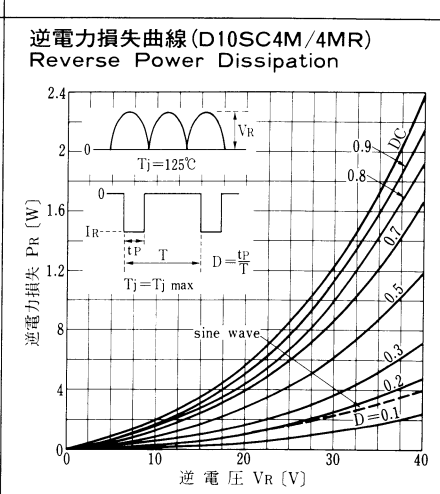
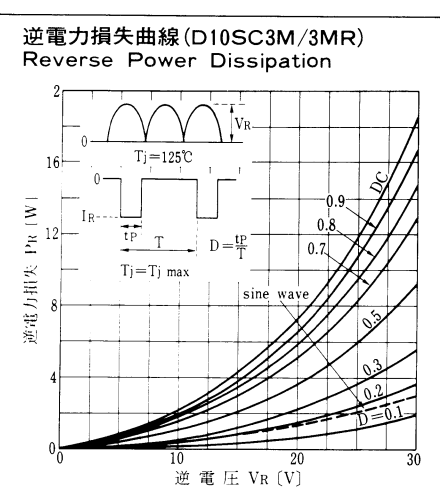
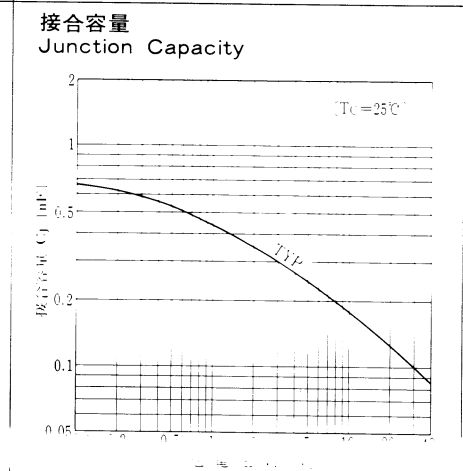
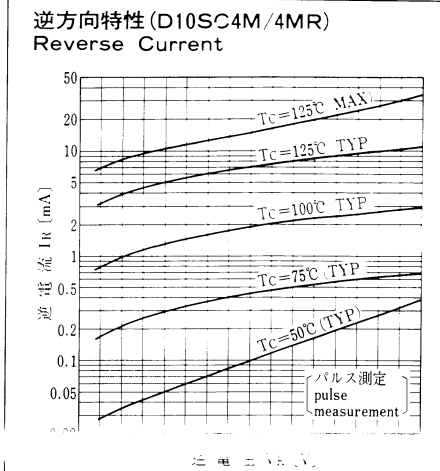
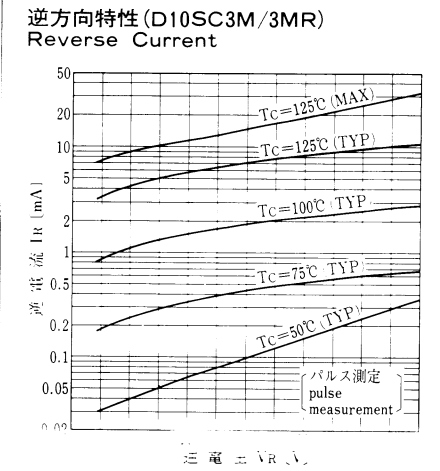
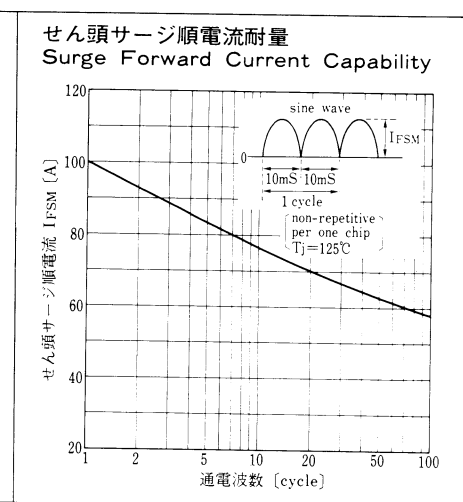
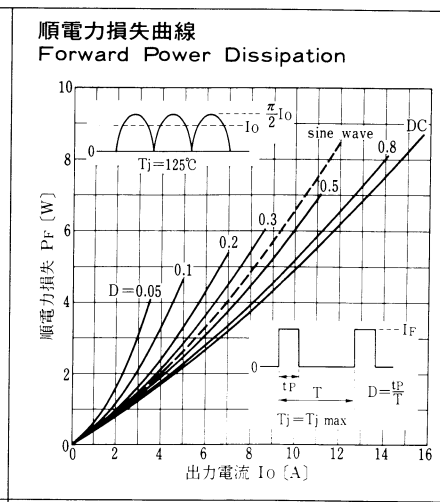
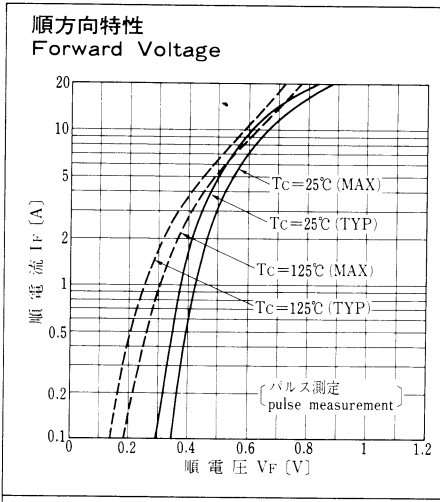
- スイッチングパワーサプライの高周波回路整流用
- コンバータ, チョップの高周波回路整流用
- その他の高周波回路整流用

High frequency circuit rectification for

- Switching power supplies.
- Converters and choppers.
- Other various applications.

外形図 Outline Dimensions





定格表 RATINGS

項目 Item	記号 Symbol	条件 Conditions	品名 Type No.		単位 Unit
			S10SC3M S10SC3MR	S10SC4M S10SC4MR	
保存温度 Storage Temperature	Tstg		-40 ~ +125		°C
接合部温度 Operating Junction Temperature	Tj		+125		°C
絶対最大 規格 せん頭逆電圧 Maximum Reverse Voltage	V _{RM}		30	40	V
絶対最大 規格 繰り返しせん頭サージ電圧 Repetitive Peak Surge Voltage	V _{RFSM}	パルス幅0.5mS, duty 1/40 Pulse width 0.5mS, Duty cycle 1/40	35	45	V
Absolute Maximum Ratings 出力電流 Average Rectified Forward Current	I _O	50Hz正弦波, 抵抗負荷, 1素子当りの出力電流 平均値 I _O /2, T _C =104°C 50Hz Sine wave, R-load, Rating for each diode = I _O /2, T _C =104°C	10		A
せん頭サージ順電流 Peak Surge Forward Current	I _{FSM}	50Hz正弦波, 非繰り返し 1 サイクルせん頭値, T _j =125°C 50Hz Sine wave, Non-repetitive 1 cycle peak value, T _j =125°C	100		A
締め付けトルク Mounting Torque	TOR	(推奨値: 3 kg·cm) (Recommended torque: 3 kg·cm)	5		kg·cm
電氣的・ 熱的特性 T _C =25°C Electrical Character- istics T _C =25°C	順電圧 Forward Voltage	I _F =5A, パルス測定, 1素子当りの規格値 I _F =5A, Pulse measurement, Rating of per diode	MAX	0.55	V
	逆電流 Reverse Current	V _R =V _{RM} , パルス測定, 1素子当りの規格値 V _R =V _{RM} , Pulse measurement, Rating of per diode	MAX	3.5	mA
	逆回復時間 Reverse Recovery Time	I _F =5A, -dI _F /dt=5A/μS 1素子当りの規格値 Rating of per diode	MAX	110	nS
熱抵抗 Thermal Resistance	θ _{jc}	接合部・ケース間 Junction to case	MAX	3	°C/W

特長 Features

- 逆特性に優れた高信頼性
- 逆回復時間が早い
- 順方向電圧降下が小さい
- スイッチングノイズが小さい
- UL94, 94V-O 適合のレジソールドを使用
- Excellent reverse characteristics and high reliability.
- Fast reverse recovery time.
- Small forward voltage drop.
- Low switching noise.
- UL (UL94, 94V-O) meet resin mold.

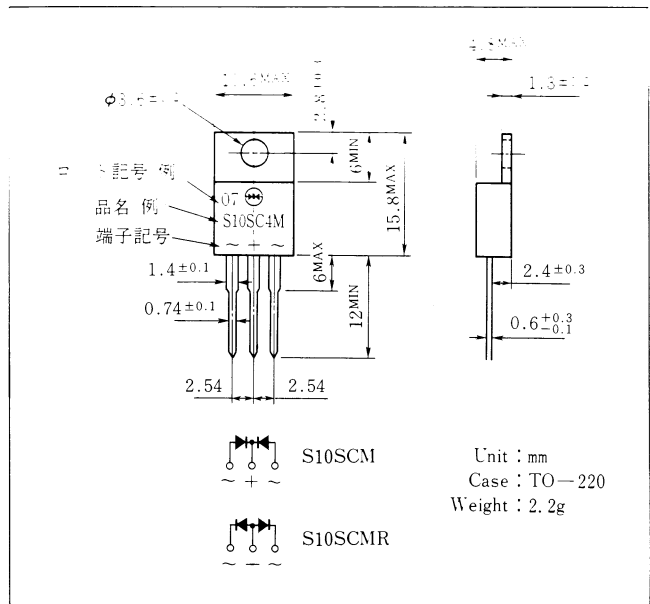
用途 Applications

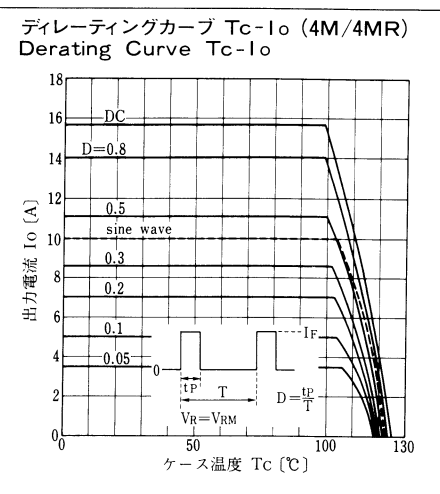
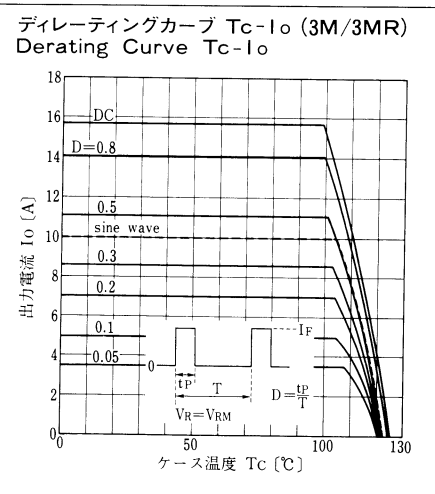
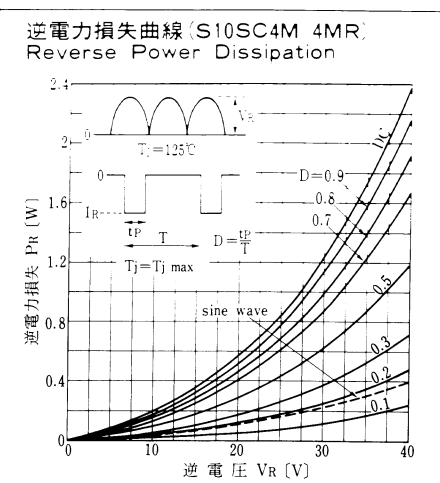
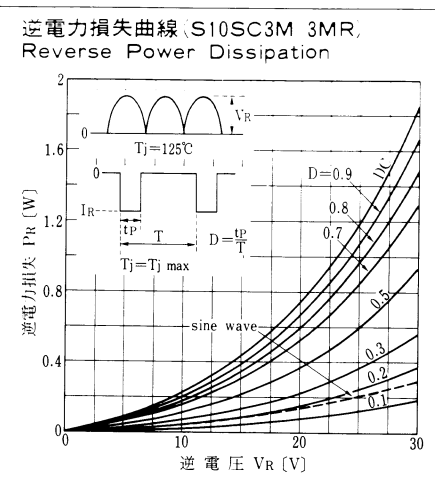
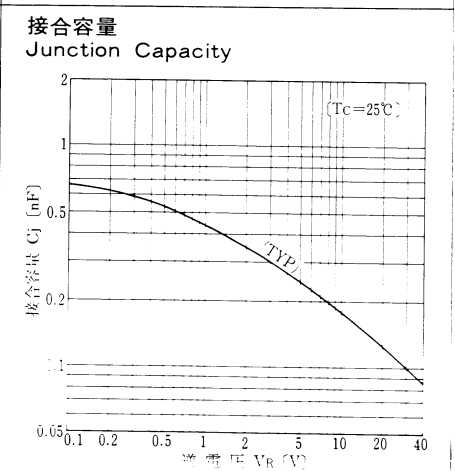
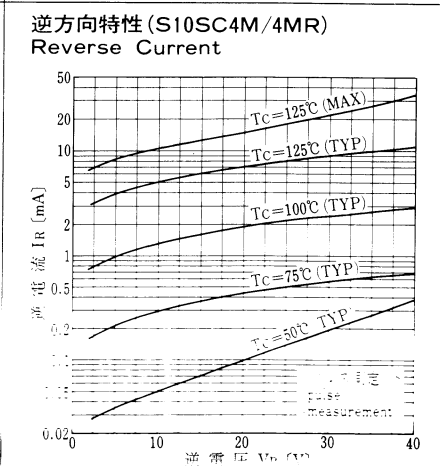
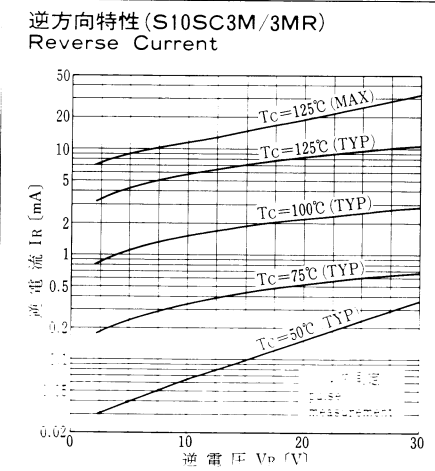
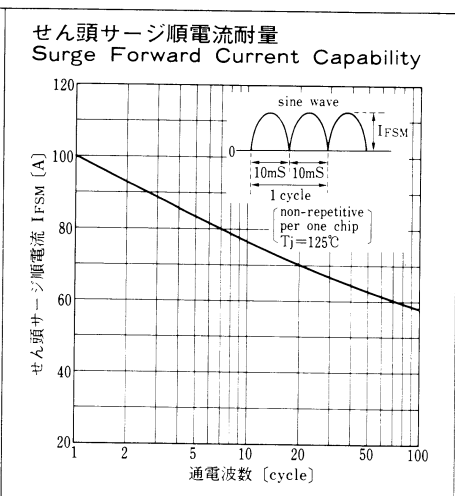
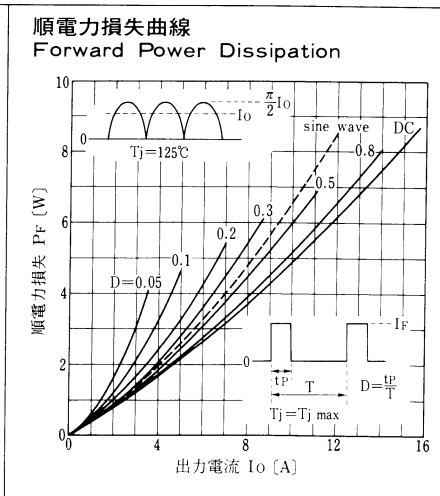
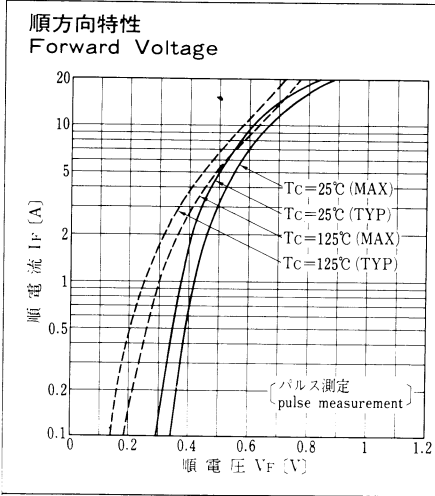
- スイッチングパワーサプライの高周波回路整流用
- コンバータ, チョップパの高周波回路整流用
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High frequency circuit rectification for

- Switching power supplies.
- Converters and choppers.
- Other various applications.

外形図 Outline Dimensions





定格表 RATINGS

項目、 Item	記号 Symbol	条件 Conditions	品名 Type No.		単位 Unit
			S10SC3	S10SC4	
保存温度 Storage Temperature	Tstg		-55 ~ +125		°C
接合部温度 Operating Junction Temperature	Tj		+125		°C
せん頭逆電圧 Maximum Reverse Voltage	V _{RM}		30	40	V
繰り返しせん頭サージ電圧 Repetitive Peak Surge Voltage	V _{RRSM}	パルス幅0.5mS, duty 1/40 Pulse width 0.5mS, Duty cycle 1/40	35	40	V
出力電流 Average Rectified Forward Current	I _O	50Hz正弦波, 抵抗負荷, 1素子当りの出力電流 平均値 I _O /2, T _C =100°C 50Hz Sine wave, R-load, Rating for each diode = I _O /2, T _C =100°C	10		A
せん頭サージ順電流 Peak Surge Forward Current	I _{FSM}	50Hz正弦波, 非繰り返し 1 サイクルせん頭値, T _J =125°C 50Hz Sine wave, Non-repetitive 1 cycle peak value, T _J =125°C	100		A
締め付けトルク Mounting Torque	TOR	(推奨値: 5 kg·cm) (Recommended torque: 5 kg·cm)	10		kg·cm
電氣的・ 熱的特性 T _C =25°C	順電圧 Forward Voltage	パルス測定, 1素子当りの規格値 Pulse measurement Rating of per diode	I _F =5A	MAX 0.55	V
			I _F =15A	MAX 0.85	
Electrical Character- istics T _C =25°C	逆電流 Reverse Current	V _R =V _{RM} , パルス測定, 1素子当りの規格値 V _R =V _{RM} , Pulse measurement, Rating of per diode	MAX 3.5		mA
			T _C =125°C	MAX 33	
	逆回復時間 Reverse Recovery Time	I _F =5A, -dI _F /dt=5A/μS	MAX 110		nS
	熱抵抗 Thermal Resistance	接合部・ケース間 Junction to case	MAX 3.5		°C/W

特長 Features

- ハーメチックシールタイプ
- 逆特性に優れ高信頼性
- 逆回復時間が早い
- 順方向電圧降下が小さい
- スイッチングノイズが小さい
- Hermetically sealed case.
- Excellent reverse characteristics and high reliability.
- Fast reverse recovery time.
- Small forward voltage drop.
- Low switching noise.

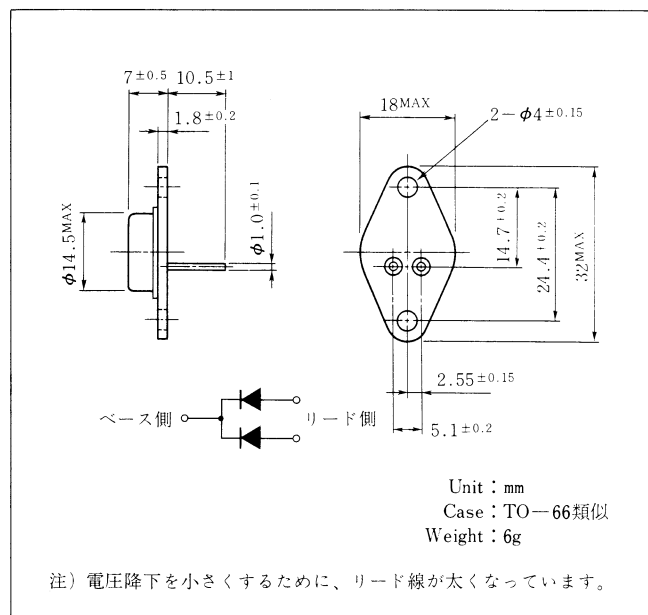
用途 Applications

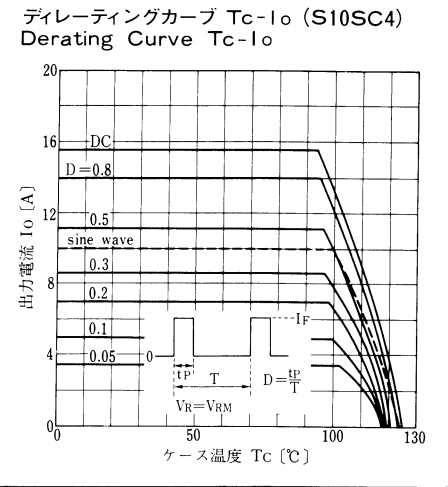
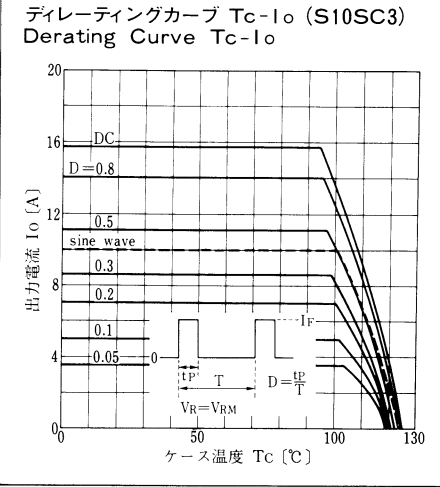
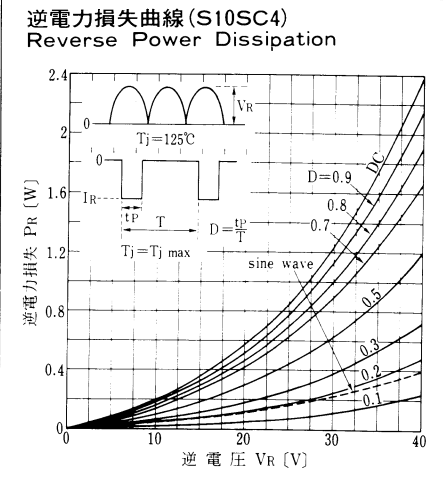
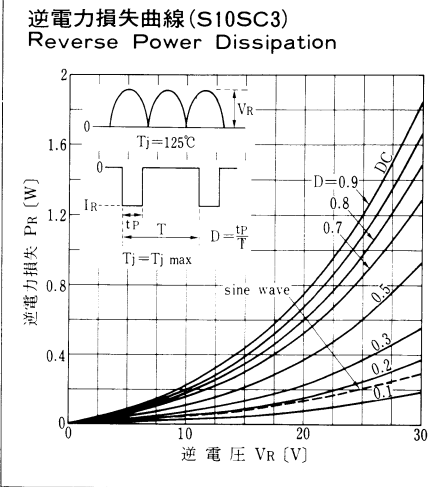
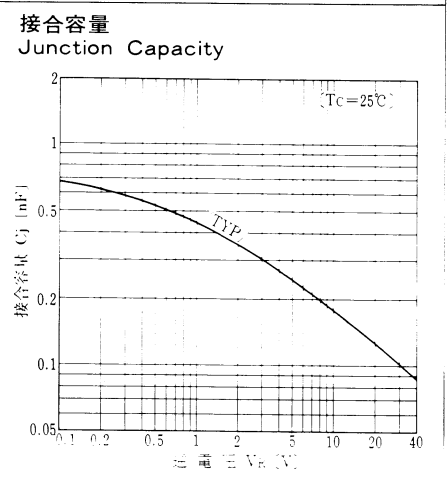
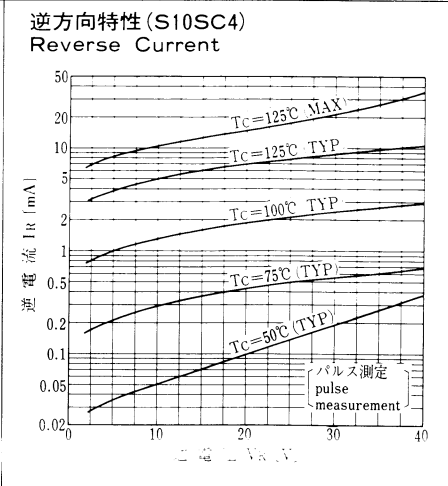
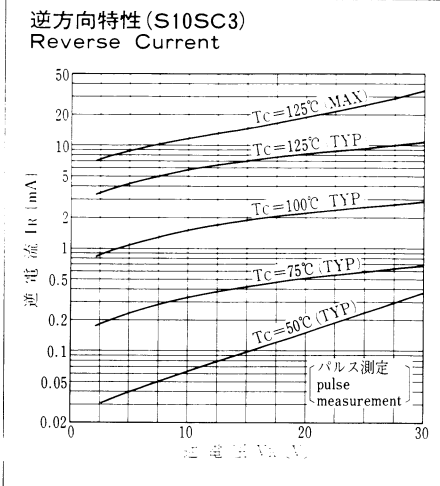
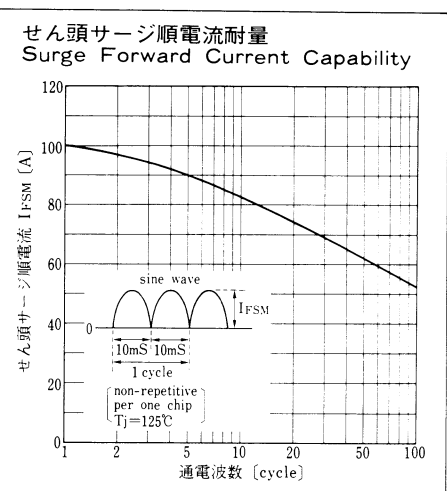
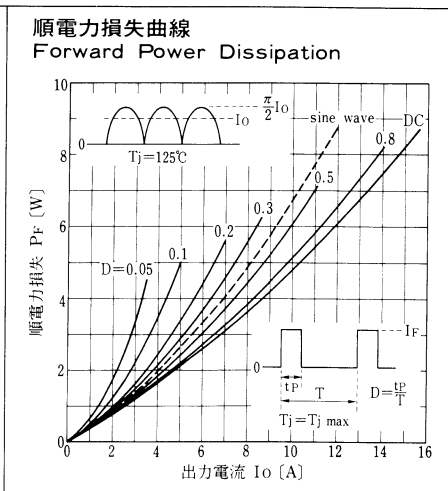
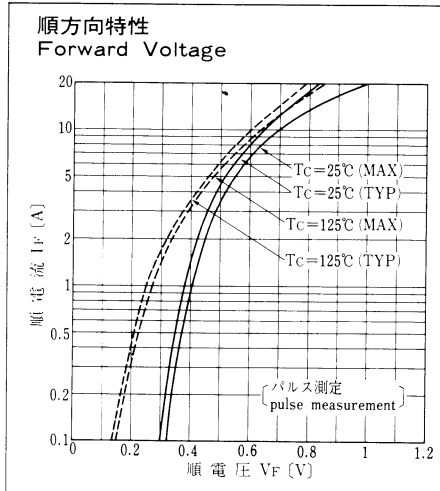
- スイッチングパワーサプライの高周波回路整流用
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High frequency circuit rectification for

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- Other various applications.

外形図 Outline Dimensions





定格表 RATINGS

項目、 Item	記号 Symbol	条件 Conditions	品名 Type No.		単位 Unit
			S15SC3M	S15SC4M	
保存温度 Storage Temperature	Tstg		-40~+125		°C
接合部温度 Operating Junction Temperature	Tj		+125		°C
せん頭逆電圧 Maximum Reverse Voltage	V _{RM}		30	40	V
繰り返しせん頭サージ電圧 Repetitive Peak Surge Voltage	V _{RRSM}	パルス幅0.5mS, duty 1/40 Pulse width 0.5mS, Duty cycle 1/40	35	45	V
Absolute Maximum Ratings 出力電流 Average Rectified Forward Current	I _O	50Hz正弦波, 抵抗負荷, 1素子当りの出力電流 平均値I _O /2, T _C =111°C 50Hz Sine wave, R-load, Rating for each diode =I _O /2, T _C =111°C	15		A
せん頭サージ順電流 Peak Surge Forward Current	I _{FSM}	50Hz正弦波, 非繰り返し1サイクルせん頭値, T _j =125°C 50Hz Sine wave, Non-repetitive 1 cycle peak value, T _j =125°C	170		A
締め付けトルク Mounting Torque	TOR	(推奨値: 5 kg·cm) (Recommended torque: 5 kg·cm)	8		kg·cm
電氣的・ 熱的特性 T _C =25°C Electrical Characteristics T _C =25°C	順電圧 Forward Voltage	I _F =7.5A, パルス測定, 1素子当りの規格値 I _F =7.5A, Pulse measurement, Rating of per diode	MAX	0.55	V
	逆電流 Reverse Current	V _R =V _{RM} , パルス測定, 1素子当りの規格値 V _R =V _{RM} , Pulse measurement, Rating of per diode	MAX	5	mA
	逆回復時間 Reverse Recovery Time	I _F =7.5A, -dI _F /dt=5A/μS 1素子当りの規格値 Rating of per diode	MAX	125	nS
熱抵抗 Thermal Resistance	θ _{jc}	接合部・ケース間 Junction to case	MAX	1.2	°C/W

特長 Features

- 逆特性に優れ高信頼性
- 逆回復時間が早い
- 順方向電圧降下が小さい
- スイッチングノイズが小さい
- UL94, 94V-O 適合のレジンモールドを使用
- ブッシュレスタイプ
- Excellent reverse characteristics and high reliability.
- Fast reverse recovery time.
- Small forward voltage drop.
- Low switching noise.
- UL (UL94, 94V-O) meet resin mold.
- Bushless type.

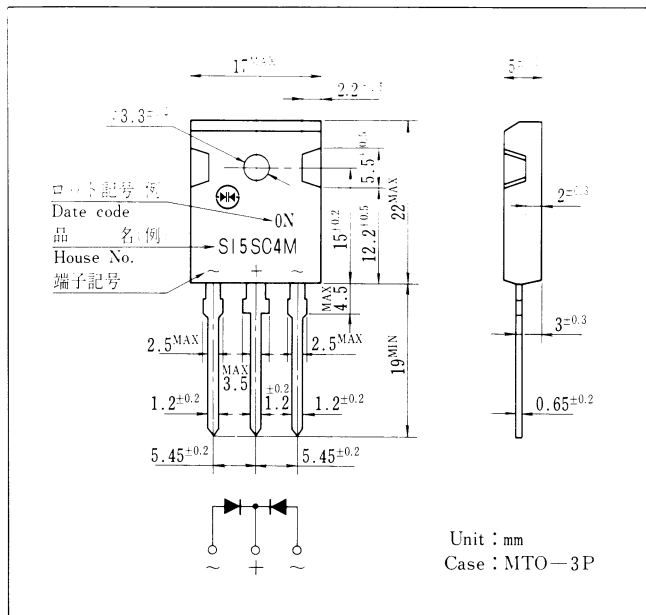
用途 Applications

- スイッチングパワーサプライの高周波回路整流用
- コンバータ, チョップの高周波回路整流用
- その他の高周波回路整流用

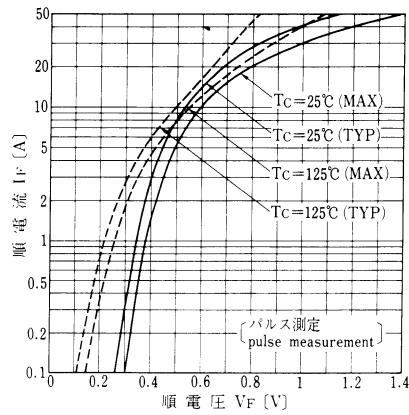
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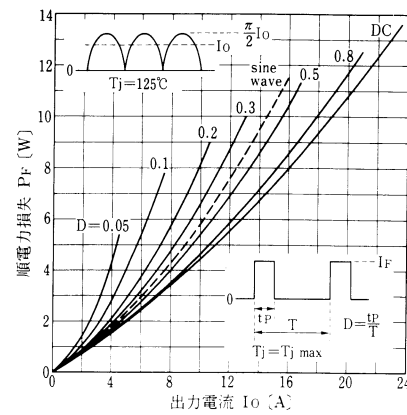
外形図 Outline Dimensions



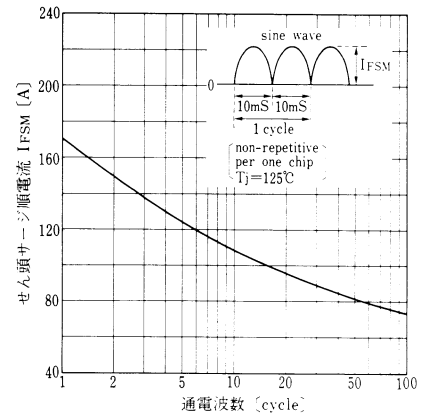
順方向特性
Forward Voltage



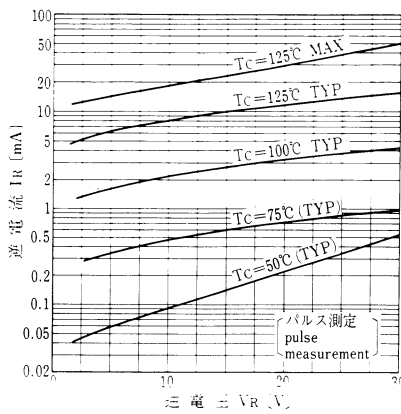
順電力損失曲線
Forward Power Dissipation



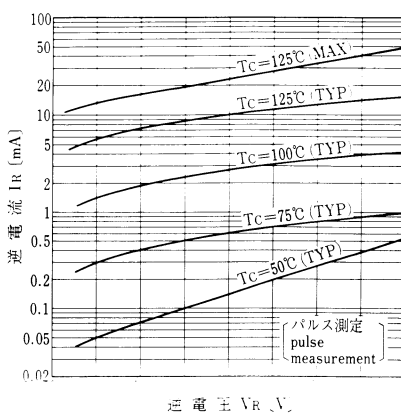
せん頭サーージ順電流耐量
Surge Forward Current Capability



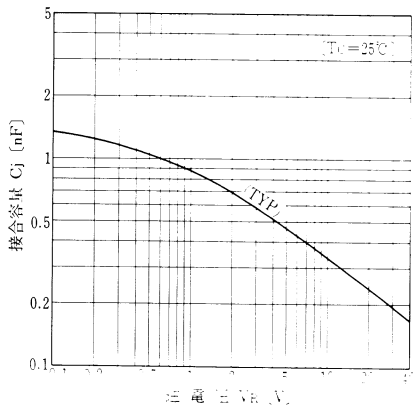
逆方向特性 (S15SC3M)
Reverse Current



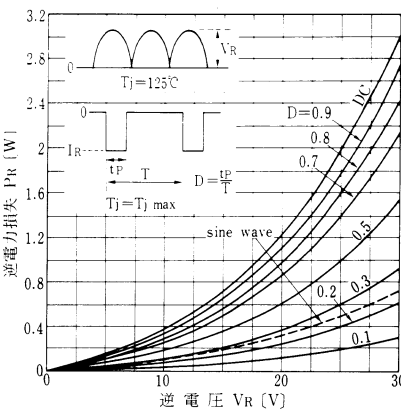
逆方向特性 (S15SC4M)
Reverse Current



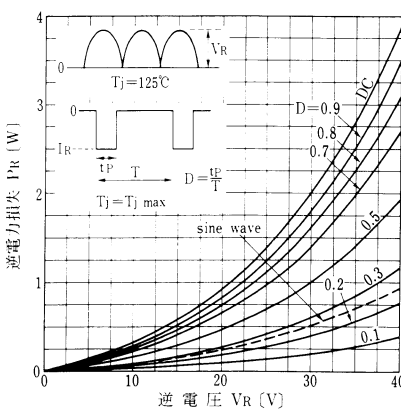
接合容量
Junction Capacity



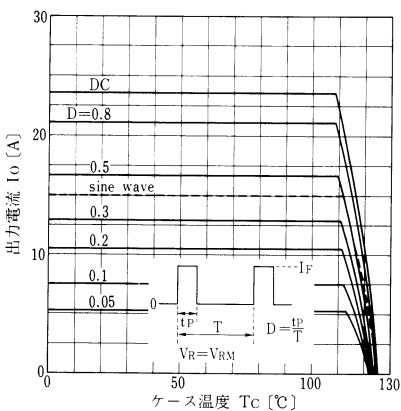
逆電力損失曲線 (S15SC3M)
Reverse Power Dissipation



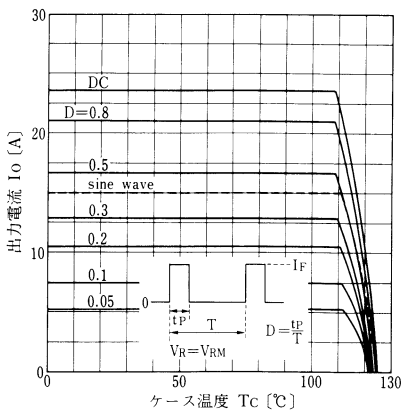
逆電力損失曲線 (S15SC4M)
Reverse Power Dissipation



ディレーティングカーブ Tc-I_o (S15SC3M)
Derating Curve Tc-I_o



ディレーティングカーブ Tc-I_o (S15SC4M)
Derating Curve Tc-I_o



定格表 RATINGS

項目、 Item	記号 Symbol	条件 Conditions	品名 Type No.		単位 Unit
			S30SC3M	S30SC4M	
保存温度 Storage Temperature	Tstg		-40 ~ +125		°C
接合部温度 Operating Junction Temperature	Tj		+125		°C
せん頭逆電圧 Maximum Reverse Voltage	V _{RM}		30	40	V
絶対最大 定格 繰返しせん頭サージ電圧 Repetitive Peak Surge Voltage	V _{RRSM}	パルス幅0.5mS, duty 1/40 Pulse width 0.5mS, Duty cycle 1/40	35	45	V
Absolute Maximum Ratings 出力電流 Average Rectified Forward Current	I _O	50Hz正弦波, 抵抗負荷, 1素子当りの出力電流 平均値 I _O /2, T _C =102°C 50Hz Sine wave, R-load, Rating for each diode = I _O /2, T _C =102°C	30		A
せん頭サージ順電流 Peak Surge Forward Current	I _{FSM}	50Hz正弦波, 非繰返し1サイクルせん頭値, T _j =125°C 50Hz Sine wave, Non-repetitive 1 cycle peak value, T _j =125°C	300		A
締め付けトルク Mounting Torque	TOR	(推奨値: 5 kg·cm) (Recommended torque: 5 kg·cm)	8		kg·cm
電氣的・ 熱的特性 T _C =25°C	順電圧 Forward Voltage	I _F =15A, パルス測定, 1素子当りの規格値 I _F =15A, Pulse measurement, Rating of per diode	MAX	0.55	V
	逆電流 Reverse Current	V _R =V _{RM} , パルス測定, 1素子当りの規格値 V _R =V _{RM} , Pulse measurement, Rating of per diode	MAX	10	mA
Electrical Character- istics T _C =25°C	逆回復時間 Reverse Recovery Time	I _F =15A, -dI _F dt=10A μS 1素子当りの規格値 Rating of per diode	MAX	150	nS
	熱抵抗 Thermal Resistance	接合部・ケース間 Junction to case	MAX	1	°C/W

特長 Features

- 逆特性に優れ高信頼性
- 逆回復時間が早い
- 順方向電圧降下が小さい
- スイッチングノイズが小さい
- UL94, 94V-O 適合のレジンモールドを使用
- プッシュレスタイプ
- Excellent reverse characteristics and high reliability.
- Fast reverse recovery time.
- Small forward voltage drop.
- Low switching noise.
- UL (UL94, 94V-O) meet resin mold.
- Bushless type.

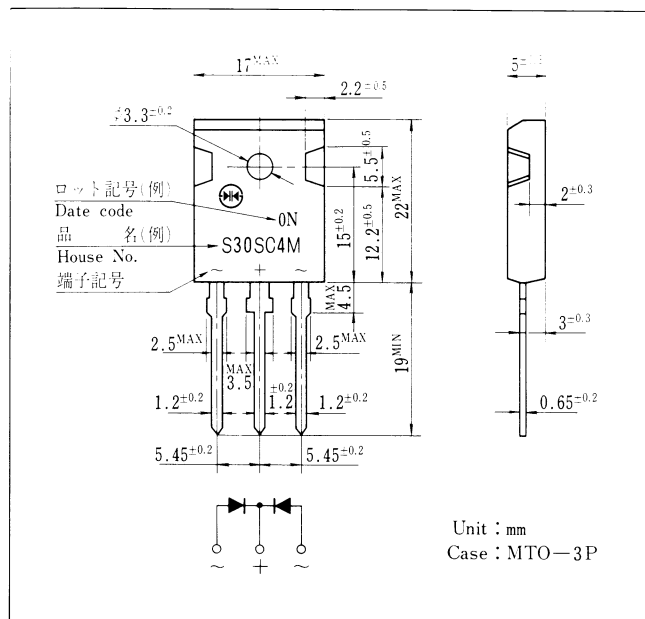
用途 Applications

- スイッチングパワーサプライの高周波回路整流用
- コンバータ, チョップの高周波回路整流用
- その他の高周波回路整流用

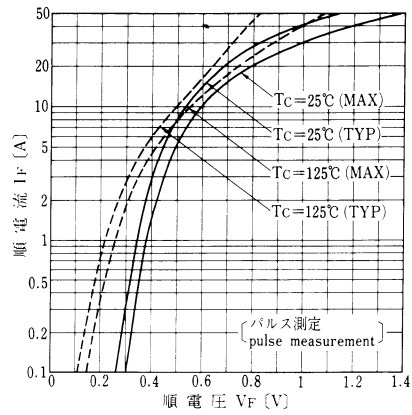
High frequency circuit rectification for

- Switching power supplies.
- Converters and choppers.
- Other various applications.

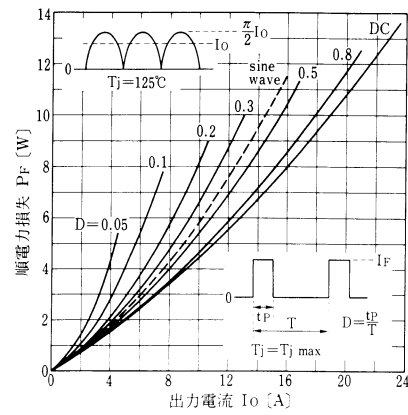
外形図 Outline Dimensions



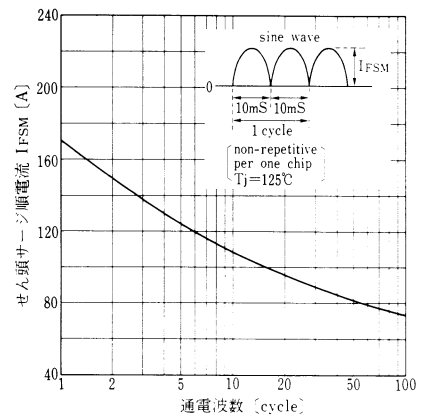
順方向特性
Forward Voltage



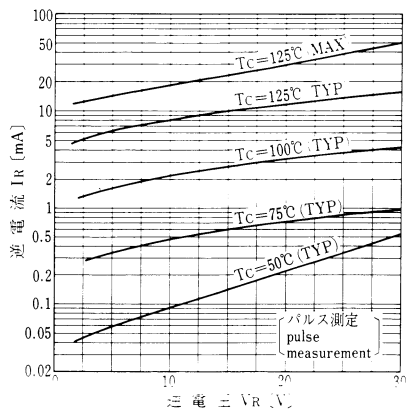
順電力損失曲線
Forward Power Dissipation



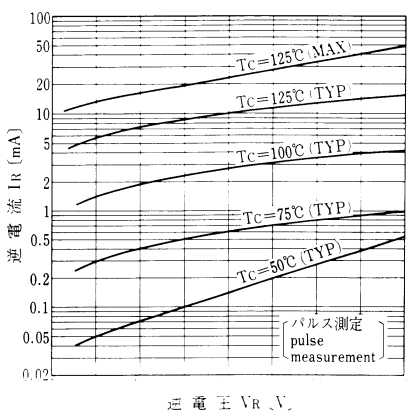
せん頭サージ順電流耐量
Surge Forward Current Capability



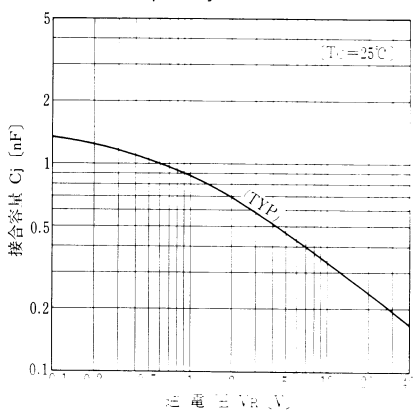
逆方向特性 (S15SC3M)
Reverse Current



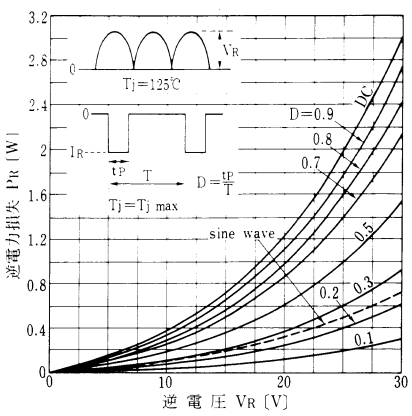
逆方向特性 (S15SC4M)
Reverse Current



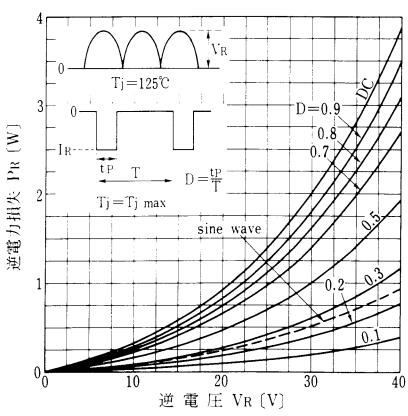
接合容量
Junction Capacity



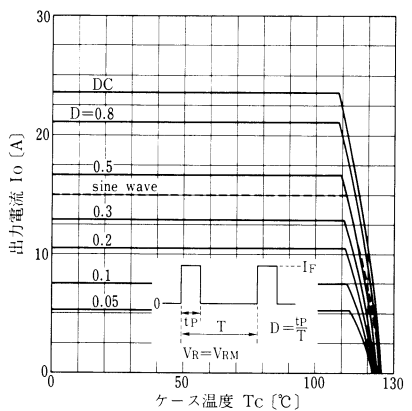
逆電力損失曲線 (S15SC3M)
Reverse Power Dissipation



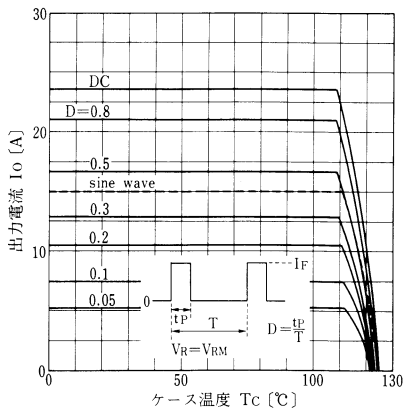
逆電力損失曲線 (S15SC4M)
Reverse Power Dissipation



ディレーティングカーブ Tc-I_o (S15SC3M)
Derating Curve Tc-I_o



ディレーティングカーブ Tc-I_o (S15SC4M)
Derating Curve Tc-I_o



定格表 RATINGS

項目、 Item	記号 Symbol	条件 Conditions	品名 Type No.		単位 Unit
			S30SC3M	S30SC4M	
保存温度 Storage Temperature	Tstg		-40 ~ +125		°C
接合部温度 Operating Junction Temperature	Tj		+125		°C
せん頭逆電圧 Maximum Reverse Voltage	V _{RM}		30	40	V
絶対最大 大定格 繰り返しせん頭サージ電圧 Repetitive Peak Surge Voltage	V _{RRSM}	パルス幅0.5mS, duty 1/40 Pulse width 0.5mS, Duty cycle 1/40	35	45	V
Absolute Maximum Ratings 出力電流 Average Rectified Forward Current	I _O	50Hz正弦波, 抵抗負荷, 1素子当りの出力電流 平均値 I _O /2, T _C =102°C 50Hz Sine wave, R-load, Rating for each diode = I _O /2, T _C =102°C	30		A
せん頭サージ順電流 Peak Surge Forward Current	I _{FSM}	50Hz正弦波, 非繰り返し 1 サイクルせん頭値, T _j =125°C 50Hz Sine wave, Non-repetitive 1 cycle peak value, T _j =125°C	300		A
締め付けトルク Mounting Torque	TOR	(推奨値: 5 kg·cm) (Recommended torque: 5 kg·cm)	8		kg·cm
電氣的・ 熱的特性 T _C =25°C	順電圧 Forward Voltage	I _F =15A, パルス測定, 1素子当りの規格値 I _F =15A, Pulse measurement, Rating of per diode	MAX	0.55	V
	逆電流 Reverse Current	V _R =V _{RM} , パルス測定, 1素子当りの規格値 V _R =V _{RM} , Pulse measurement, Rating of per diode	MAX	10	mA
Electrical Character- istics T _C =25°C	逆回復時間 Reverse Recovery Time	I _F =15A, -dI _F /dt=10A/μS 1素子当りの規格値 Rating of per diode	MAX	150	nS
	熱抵抗 Thermal Resistance	接合部・ケース間 Junction to case	MAX	1	°C/W

特長 Features

- 通特性に優れ高信頼性
- 逆回復時間が早い
- 順方向電圧降下が小さい
- スイッチングノイズが小さい
- UL94, 94V-O 適合のレジソールドを使用
- プッシュレスタイプ
- Excellent reverse characteristics and high reliability.
- Fast reverse recovery time.
- Small forward voltage drop.
- Low switching noise.
- UL (UL94, 94V-O) meet resin mold.
- Bushless type.

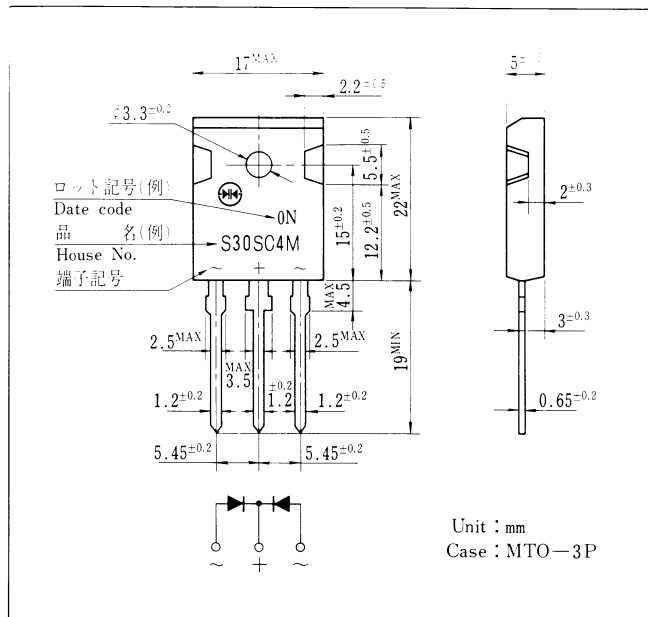
用途 Applications

- スイッチングパワーサプライの高周波回路整流用
- コンバータ, チョップパの高周波回路整流用
- その他の高周波回路整流用

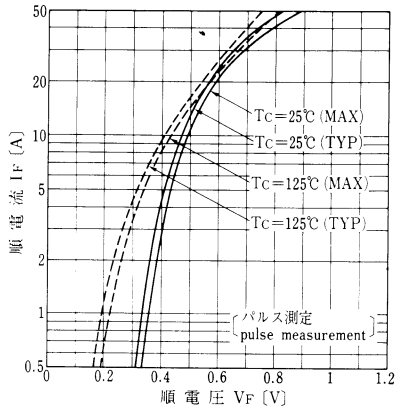
High frequency circuit rectification for

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- Converters and choppers.
- Other various applications.

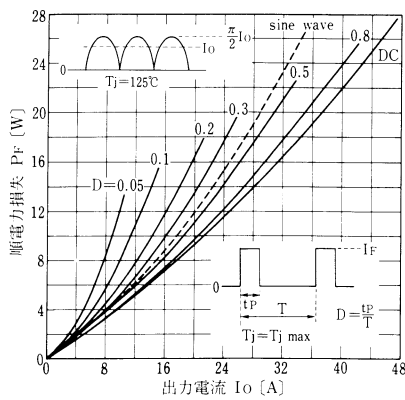
外形図 Outline Dimensions



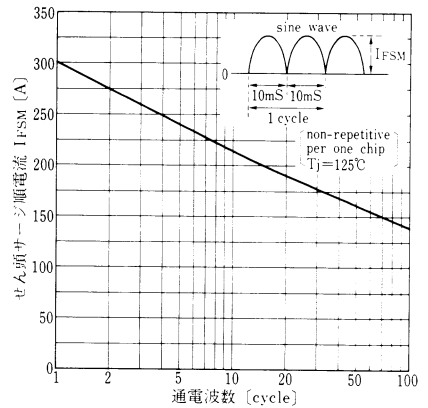
順方向特性
Forward Voltage



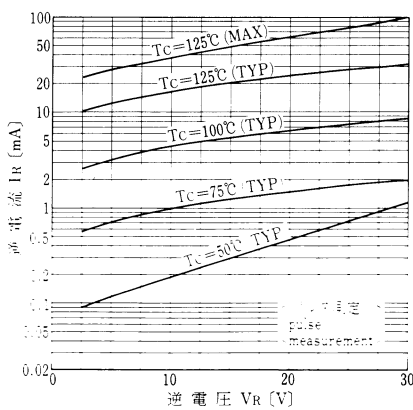
順電力損失曲線
Forward Power Dissipation



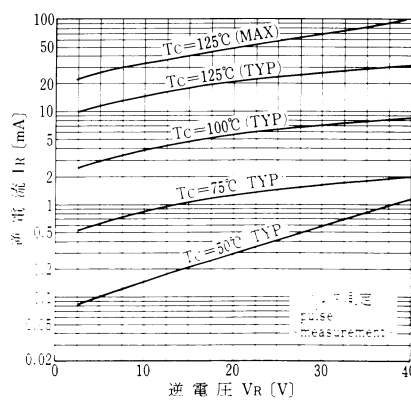
せん頭サージ順電流耐量
Surge Forward Current Capability



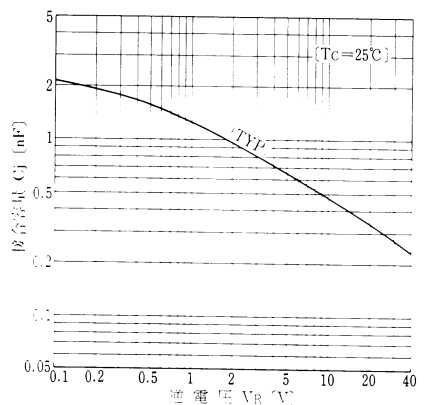
逆方向特性 (S30SC3M)
Reverse Current



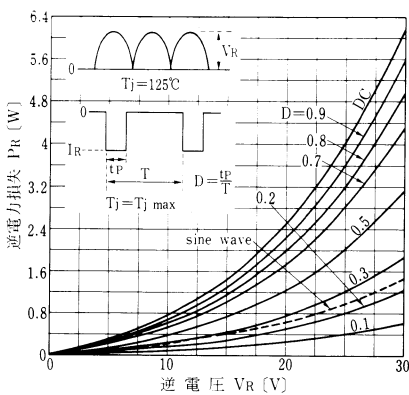
逆方向特性 (S30SC4M)
Reverse Current



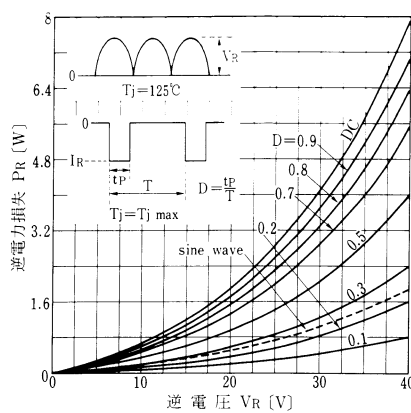
接合容量
Junction Capacity



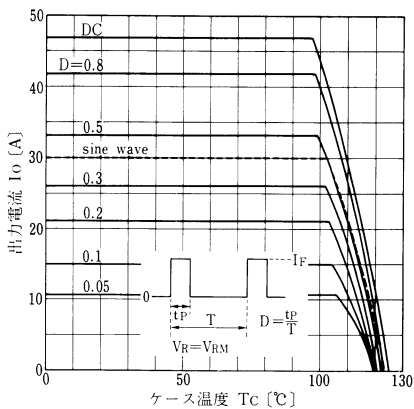
逆電力損失曲線 (S30SC3M)
Reverse Power Dissipation



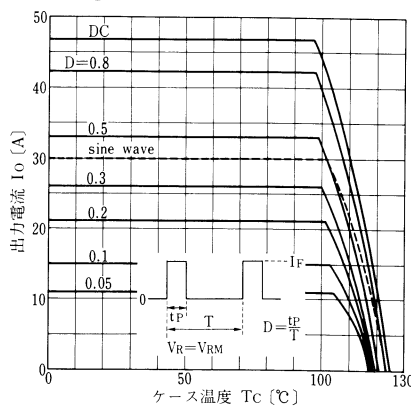
逆電力損失曲線 (S30SC4M)
Reverse Power Dissipation



デレーティングカーブ Tc-I_o (S30SC3M)
Derating Curve Tc-I_o



デレーティングカーブ Tc-I_o (S30SC4M)
Derating Curve Tc-I_o



定格表 RATINGS

項目、 Item	記号 Symbol	条件 Conditions	品名 Type No.	S30SC3 S30SC3F	S30SC4 S30SC4F	単位 Unit
保存温度 Storage Temperature	Tstg			-55 ~ +125		°C
接合部温度 Operating Junction Temperature	Tj			+125		°C
せん頭逆電圧 Maximum Reverse Voltage	V _{RM}			30	40	V
繰り返しせん頭サージ電圧 Repetitive Peak Surge Voltage	V _{RRSM}	パルス幅0.5mS, duty 1/40 Pulse width 0.5mS, Duty cycle 1/40		35	45	V
出力電流 Average Rectified Forward Current	I _O	50Hz正弦波, 抵抗負荷, 1素子当りの出力電流 平均値 I _O /2, T _C =100°C 50Hz Sine wave, R-load, Rating for each diode = I _O /2, T _C =100°C		30		A
せん頭サージ順電流 Peak Surge Forward Current	I _{FSM}	50Hz正弦波, 非繰り返し 1 サイクルせん頭値, T _J =125°C 50Hz Sine wave, Non-repetitive 1 cycle peak value, T _J =125°C		300		A
締め付けトルク Mounting Torque	TOR	(推奨値: 5 kg·cm) (Recommended torque: 5 kg·cm)		10		kg·cm
電氣的・ 熱的特性 T _C =25°C	順電圧 Forward Voltage	パルス測定, 1素子当りの規格値 Pulse measurement Rating of per diode	I _F =15A	MAX	0.55	V
			I _F =45A	MAX	0.85	
Electrical Character- istics T _C =25°C	逆電流 Reverse Current	V _R =V _{RM} , パルス測定, 1素子当りの規格値 V _R =V _{RM} , Pulse measurement, Rating of per diode		MAX	10	mA
			T _C =125°C	MAX	100	
	逆回復時間 Reverse Recovery Time	I _F =15A, -dI _F /dt=10A/μS	1素子当りの規格値 Rating of per diode	MAX	150	nS
	熱抵抗 Thermal Resistance	接合部・ケース間 Junction to case		MAX	1.1	°C/W

特長 Features

- ハーメチックシールタイプ
- 逆特性に優れ高信頼性
- 逆回復時間が早い
- 順方向電圧降下が小さい
- スイッチングノイズが小さい
- Hermetically sealed case.
- Excellent reverse characteristics and high reliability.
- Fast reverse recovery time.
- Small forward voltage drop.
- Low switching noise.

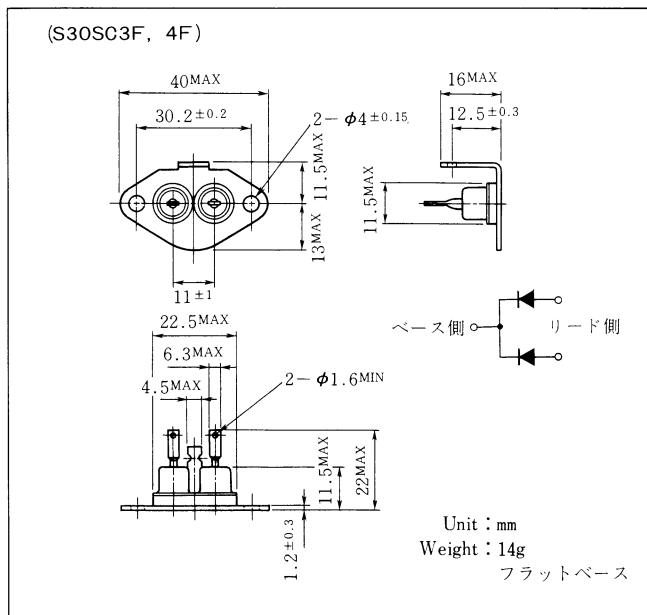
用途 Applications

- スイッチングパワーサプライの高周波回路整流用
- コンバータ, チョップパの高周波回路整流用
- その他の高周波回路整流用

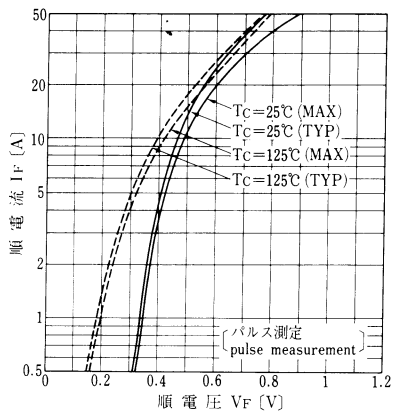
High frequency circuit rectification for

- Switching power supplies.
- Converters and choppers.
- Other various applications.

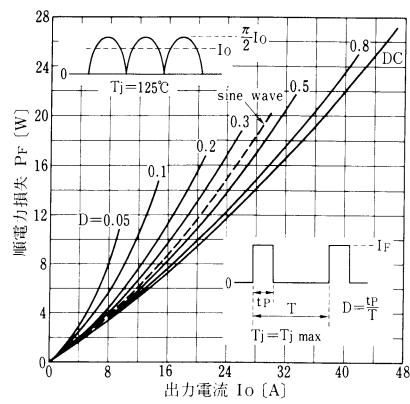
外形図 Outline Dimensions



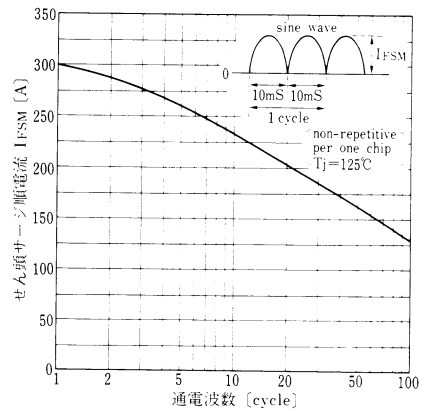
順方向特性
Forward Voltage



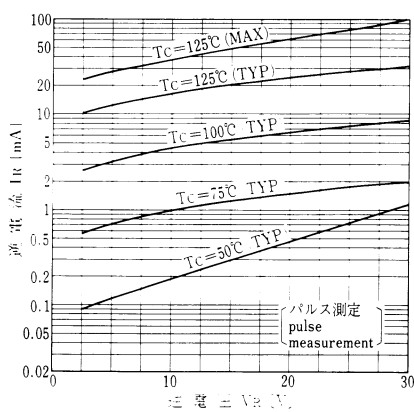
順電力損失曲線
Forward Power Dissipation



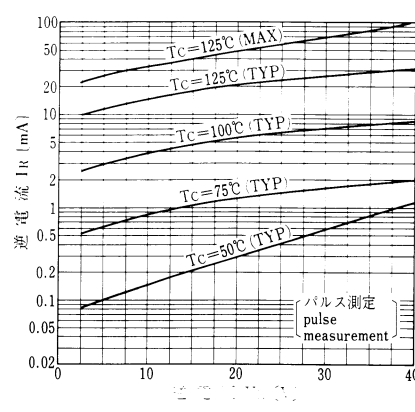
せん頭サージ順電流耐量
Surge Forward Current Capability



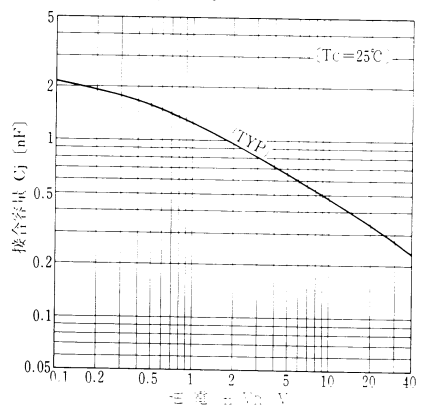
逆方向特性 (S30SC3/3F)
Reverse Current



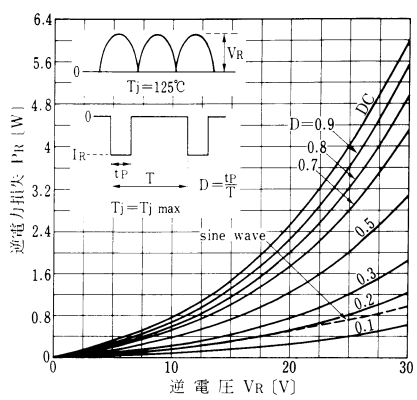
逆方向特性 (S30SC4/4F)
Reverse Current



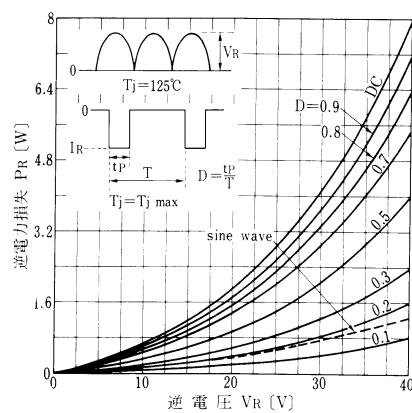
接合容量
Junction Capacity



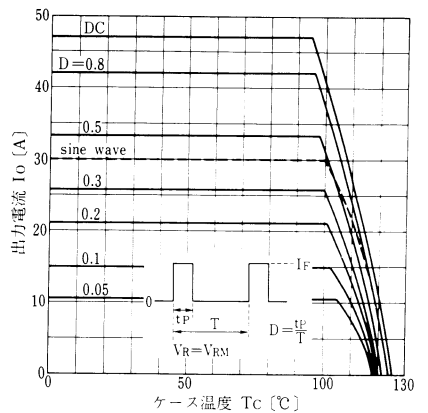
逆電力損失曲線 (S30SC3/3F)
Reverse Power Dissipation



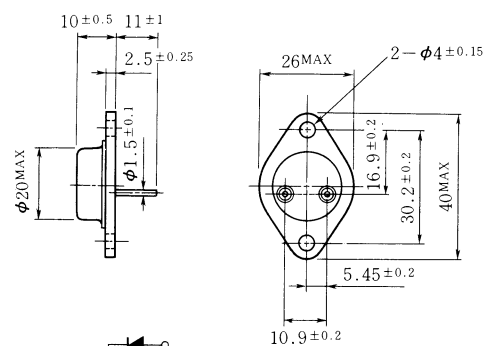
逆電力損失曲線 (S30SC4/4F)
Reverse Power Dissipation



ディレーティングカーブ Tc-I_o (3/3F)
Derating Curve Tc-I_o



(S30SC3, 4)



Unit : mm
Case : TO-3 類似
Weight : 17g

ディレーティングカーブ Tc-I_o (4/4F)
Derating Curve Tc-I_o

