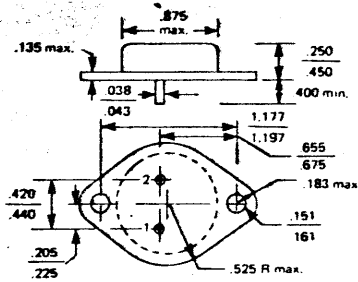


Silicon Very Fast Recovery Rectifiers and Center Tap Configurations

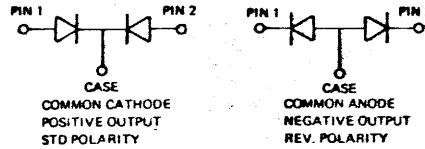
MECHANICAL DATA



CONFORMS TO JEDEC OUTLINE TO-3
ALL DIMENSIONS IN INCHES

NOTES:

- STANDARD POLARITY IS CATHODE COMMON TO CASE
- ADD SUFFIX LTR "R" FOR ANODE COMMON TO CASE
- SUES2601 SERIES ARE DUAL CHIP CENTER TAP DEVICES WITH CASE COMMON



SUES 601
THRU
SUES 606
SUES 2601
THRU
SUES 2606

FEATURES

- 30A SINGLE/30A DUALS
- LOW V_F
- HIGH SURGE
- LOW LEAKAGE
- P.I.V. TO 400 VOLTS
- VERY FAST

MAXIMUM RATINGS

I_F (Ave.)	I_{FSM} (Surge) 8.3 mSec-60 Hz	$V_{RM(rep)}$, $V_{RM(wkg)}$, V_R in VOLTS								Case Style
		50	75	100	125	150	200	300	400	
30	1000	SUES601		SUES602		SUES603	SUES604	SUES605	SUES606	TO3
30	500	SUES2601		SUES2602		SUES2603	SUES2604	SUES2605	SUES2606	TO3

ELECTRICAL CHARACTERISTICS

DEVICE CHARACTERISTIC	Symbol	Max. Value	Unit
SUES601 thru SUES606			
D.C. Forward Voltage ($I_F = 30$ Adc, $T_C = 25^\circ\text{C}$ & 125°C , 601 thru 603)	V_F	.915/.800	Volts
($I_F = 30$ Adc, $T_C = 25^\circ\text{C}$ & 125°C , 604 thru 607)	V_F	1.20/1.10	Volts
D.C. Reverse Current (@ Rated V_R , $T_C = 25^\circ\text{C}$ & 125°C , 601 thru 603)	I_R	25 μA /10mA	-
(@ Rated V_R , $T_C = 25^\circ\text{C}$ & 125°C , 604 thru 606)	I_R	70 μA /30mA	-
SUES2601 thru SUES2606			
D.C. Forward Voltage ($I_F = 15$ Adc, $T_C = 25^\circ\text{C}$ & 125°C , 2601 thru 2603)	V_F	.930/.825	Volts
($I_F = 15$ Adc, $T_C = 25^\circ\text{C}$ & 125°C , 2604 thru 2605)	V_F	1.25/1.15	Volts
D.C. Reverse Current (@ rated V_R , $T_C = 25^\circ\text{C}$ & 125°C , 2601 thru 2603)	I_R	20 μA /4mA	-
(@ rated V_R , $T_C = 25^\circ\text{C}$ & 125°C , 2604 thru 2606)	I_R	50 μA /10mA	-

Ratings are per cell - output is 30 amps CT

THERMAL CHARACTERISTICS

Characteristic	Symbol	Value	Unit
Maximum Junction Operating Temp. Range	T_J	-65 to +175	$^\circ\text{C}$
Maximum Storage Temperature Range	T_{STG}	-65 to +175	$^\circ\text{C}$

- *SUES601-6 T_{rr} 50 nsec max., C_j TYP 450 pf @ 10 V
 - *SUES2601-3 T_{rr} 35 nsec max., C_j TYP 200 pf @ 10 V
 - *SUES2604-6 T_{rr} 50 nsec max., C_j TYP 100 pf @ 10 V
- $I_F = 1/2$ A, $I_R = 1.0$ A, $I_{REC} = 1/4$ A

Semicon
INC.

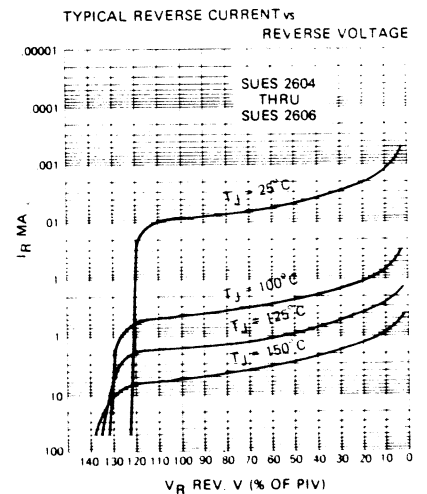
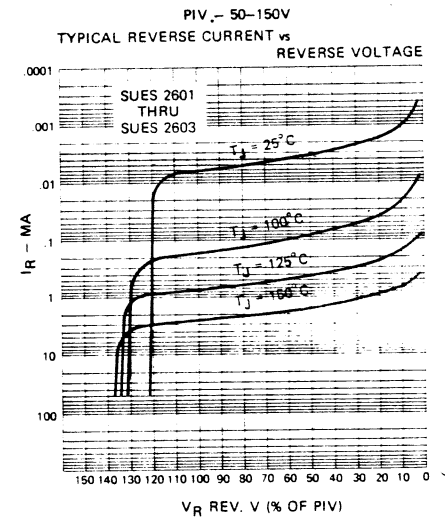
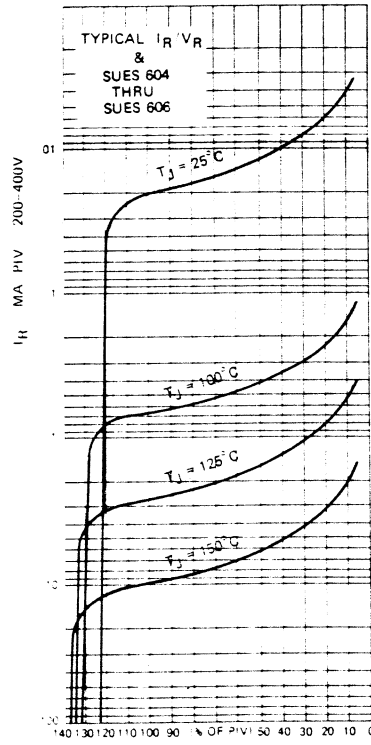
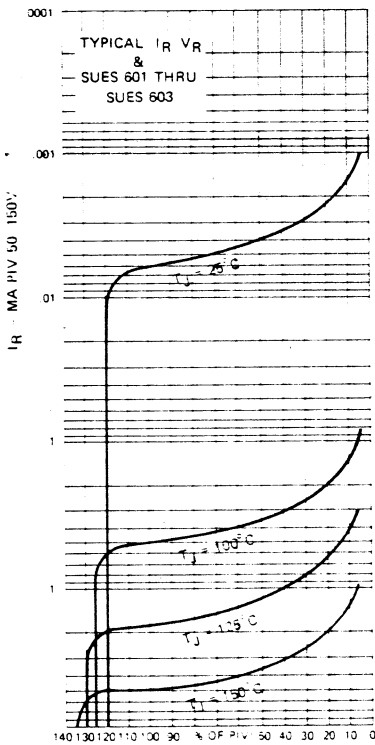
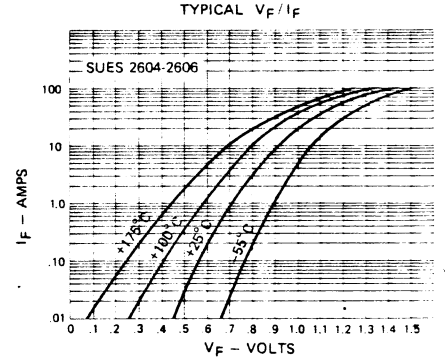
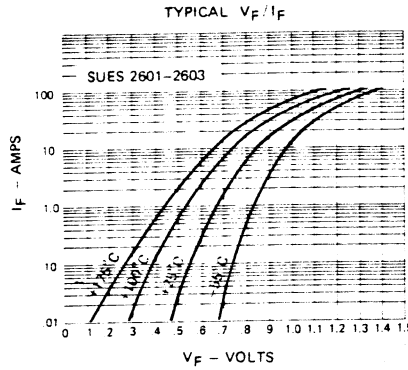
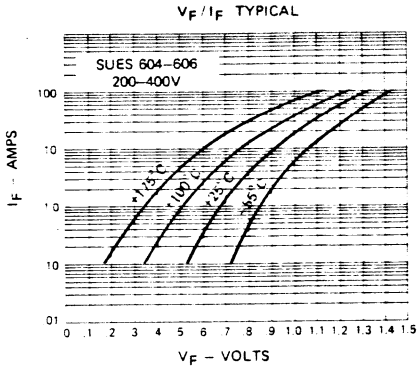
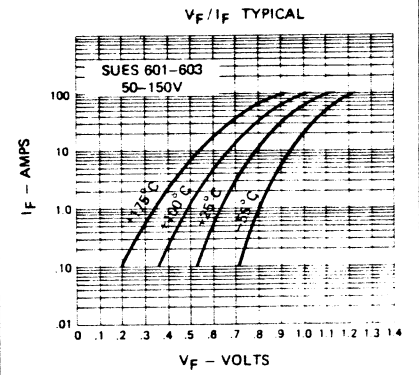
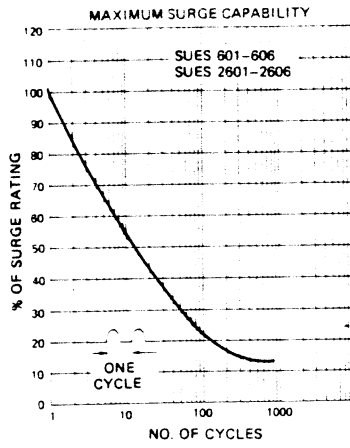
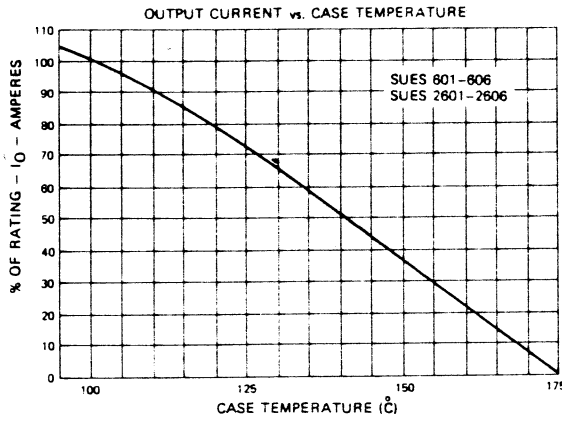


AURIEMA GMBH

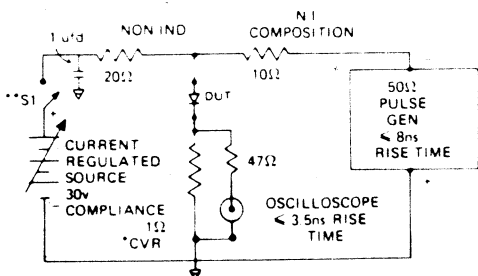
Uhdenstraße 31-33 · Postfach 1108

7100 HEILBRONN

Tel. 071 31 / 530 66 - 69 · Telex 728 639



REVERSE RECOVERY TEST CIRCUIT



*CVR MUST BE A NONINDUCTIVE RESISTOR - COAXIAL CONSTRUCTION PREFERRED

**S1 CLOSED ONLY LONG ENOUGH TO MAKE MEASUREMENT DEVICE HEATING WILL OCCUR IF LEFT CLOSED HEATING WILL RESULT IN LONGER THAN NORMAL TRR TIMES S1 MAY BE AN ELECTRONIC SW AND CLOCKED TO PULSE GEN