

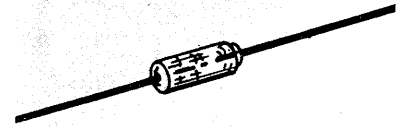
MS 9005	MS 9040
MS 9010	MS 9050
MS 9020	MS 9060
MS 9030	MS 9070

P-N MEDIUM POWER SCHOTTKY DIODES

500 MILLIAMPERES

FEATURES:

HIGH EFFICIENCY – NANOSECOND SWITCHING
 LOW CAPACITANCE, HERMETICALLY SEALED GLASS CASE
 VERY LOW FORWARD VOLTAGE DROP



APPLICATIONS:

HIGH FREQUENCY SWITCHING,
 SWITCHING POWER SUPPLIES

DO-204 AA (DO-7)

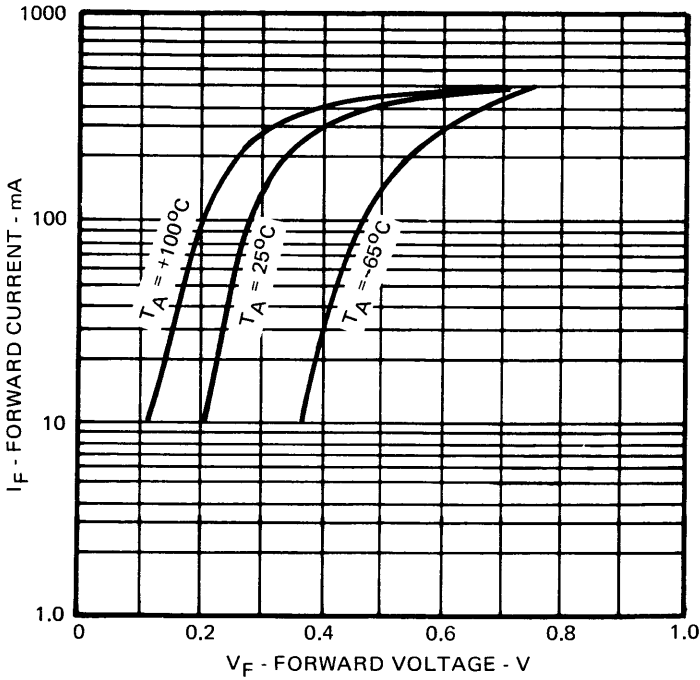
ABSOLUTE MAXIMUM RATINGS

		<u>MS 9005</u>	<u>MS 9010</u>	<u>MS 9020</u>	<u>MS 9030</u>	<u>MS 9040</u>	<u>MS 9050</u>	<u>MS 9060</u>	<u>MS 9070</u>
I_F	FORWARD CURRENT	500 mA	500 mA	500 mA	500 mA	500 mA	500 mA	500 mA	500 mA
I_F (surge)	FORWARD SURGE CURRENT (8.3 ms NON REPETITIVE SINE WAVE)	3.0 A	3.0 A	3.0 A	3.0 A	3.0 A	3.0 A	3.0 A	3.0 A
V_{BR}	REVERSE BREAKDOWN VOLTAGE AT 1.0 mA	5.0 V	10 V	20 V	30 V	40 V	50 V	60 V	70 V
P_D	POWER DISSIPATION	400 mW	400 mW	400 mW	400 mW	400 mW	400 mW	400 mW	400 mW
T (oper.)	OPERATING TEMPERATURE	_____ -65°C to +135°C _____							
T (stor.)	STORAGE TEMPERATURE	_____ -65°C to +165°C _____							

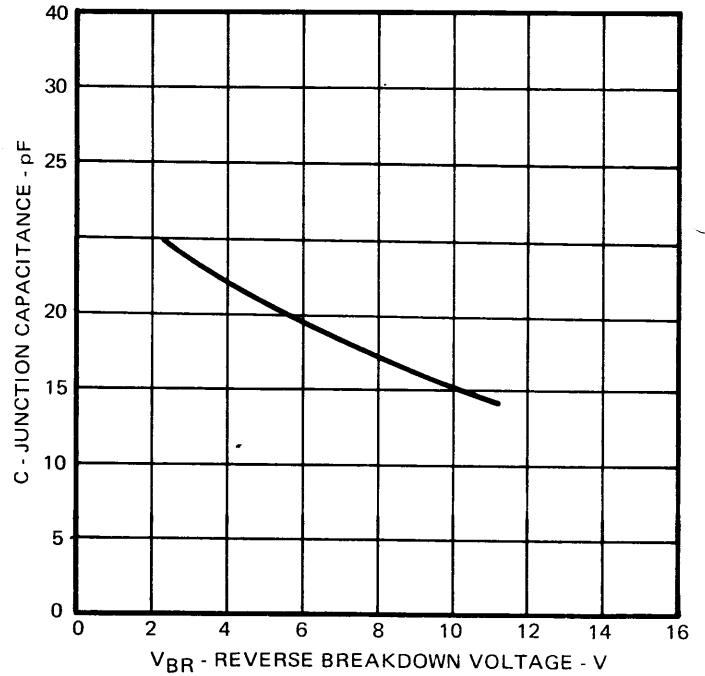
ELECTRICAL CHARACTERISTICS
($T_C = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	MAX	UNIT
*FORWARD VOLTAGE DROP @ 10 mA	V_F	0.3	V
@ 100 mA		0.5	V
@ 500 mA		0.95	V
REVERSE CURRENT @ 50% of V_{BR}	I_R	400	μA
CAPACITANCE @ 10V	C	20	pF
REVERSE RECOVERY TIME @ $I_F = I_R = 0.5\text{A}$	t_{rr}	2.0	ns

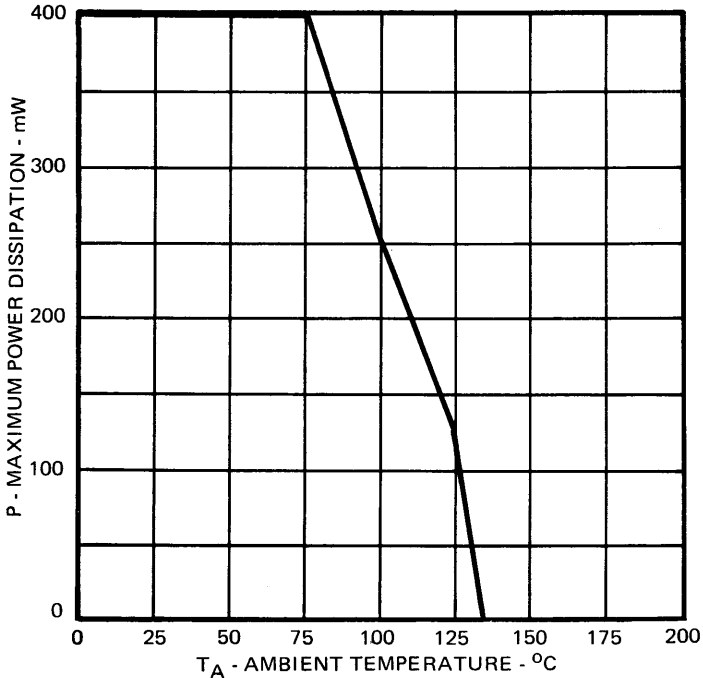
TYPICAL FORWARD CHARACTERISTICS



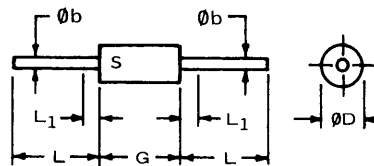
TYPICAL JUNCTION CAPACITANCE



MAXIMUM TEMPERATURE DERATING CURVE



OUTLINE DRAWING FOR DO-204AA (DO-7)



- NOTES:
1. Dimensioning and tolerancing per ANSI Y14.5, 1973.
 2. Package contour optional within $\varnothing D$ and length G. Heat slugs, if any, shall be included within this cylinder, but shall not be subject to the minimum limit of $\varnothing D$.
 3. Lead diameter not controlled in zones L_1 to allow for flash, lead finish build-up and minor irregularities other than heat slugs.
 4. Controlling dimensions: inch.

NOTE: Solitron Logo "S" denotes cathode.

SYMBOL	IN INCHES		IN MILLIMETERS		NOTE
	MIN	MAX	MIN	MAX	
$\varnothing b$	0.018	0.022	0.46	0.55	2
$\varnothing D$	0.085	0.107	2.16	2.71	2
G	0.230	0.300	5.85	7.62	2
L	1.000	1.500	25.40	38.10	2
L_1	--	0.050	--	1.27	3
NOTE	1,4		1,4		
REF.	DO-7		DO-7		