



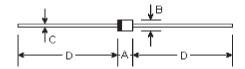
MINIATURE GENERAL PURPOSE PLASTIC RECTIFIER Reverse Voltage - 50 to 1500 Volts

Forward Current - 1.0 Ampere

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High reliability
- Low leakage
- Low forward voltage drop
- High current capability





Mechanical Data

• Case: Molded plastic black body, R-1

Lead: MIL-STD-202E method 208C guaranteed

	Mounting Position: Any
•	Weight: 0.007 ounce, 0.20 gram

DIMENSIONS									
DIM	inches		m	Note					
DIW	Min.	Max.	Min.	Max.	Note				
Α	0.114	0.138	2.9	3.5					
В	0.095	0.099	2.42	2.51	ф				
С	0.020	0.024	0.5	0.6	ф				
D	1.000	-	25.40	-					

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	1A1	1A2	1A3	1A4	1A5	1A6	1A7	1A8	1A9	Units
Maximum repetitive peak reverse voltage	$V_{_{RRM}}$	50	100	200	400	600	800	1000	1250	1500	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	875	1050	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	1250	1500	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length $\rm T_A$ =25 $^{\circ}\rm C$	I _(AV)	1.0							Amp		
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method) $\rm T_A$ =75 $^{\circ}\rm C$	I _{FSM}	30.0							Amps		
Maximum instantaneous forward voltage at 1.0A DC	V _F	1.1								Volts	
Maximum DC reverse current at rated DC blocking voltage T _A =25°C	I _R	5.0 100.0							μА		
Typical junction capacitance (Note 1)	C _J	25.0								ρF	
Typical thermal resistance	R _{⊕JA}	60.0							°C/W		
Operating and storage temperature range	T _J , T _{STG}	-55 to +150							r		

Note:

⁽¹⁾ Measured at 1.0MHz and applied reverse voltage of 4.0 volts

RATINGS AND CHARACTERISTIC CURVES

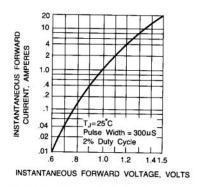


Fig. 1 - TYPICAL FORWARD CHARACTERISTICS

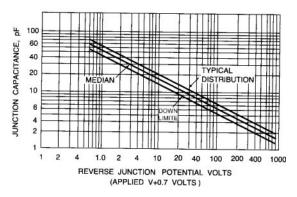


Fig. 2 - JUNCTION CAPACITANCE (See Application Note 2)

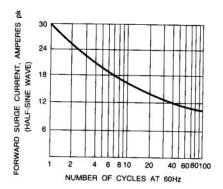


Fig. 3 - MAXIMUM OVERLOAD SURGE-CURRENT

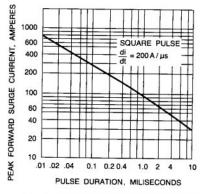


Fig. 4 - PEAK FORWARD SURGE CURRENT

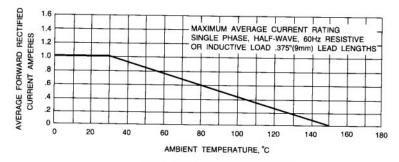


Fig. 5 - FORWARD DERATING CURVE