SURFACE MOUNT GENERAL RECTIFIER Reverse Voltage - 50 to 1000 V Forward Current - 1 A

Features

- The Plastic package carries Underwriters Laboratories Flammability Classification 94V-0
- · For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability

Mechanical Data

• Case: JEDEC DO-214AA, molded plastic body

• Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

• Polarity: Color band denates cathode end

• Mounting Position: Any

0.155(3.94) 0.077(1.95) 0.130(3.30) 0.180(4.57) 0.160(4.06) 0.012(0.305) 0.006(0.152) 0.122(3.12) 0.008(0.203)MAX. 0.060(1.52) 0.205(5.21)

DO-214AA

Dimensions in inches and millimeters

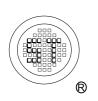
Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	S1AB	S1BB	S1DB	S1GB	S1JB	S1KB	S1MB	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _L = 110 °C	I _(AV)	1							А
Peak Forward Surge Current 8.3 ms Single Half Sine -wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30							Α
Maximum Instantaneous Forward Voltage at 1 A	V_{F}	1.1							٧
Maximum DC Reverse Current $T_A = 25$ °C at Rated DC Blocking Voltage $T_A = 100$ °C	I _R	5 50							μA
Typical Junction Capacitance 1)	Cک	15							pF
Typical Thermal Resistance 2)	$R_{\theta JA}$	75							°C/W
Operating Junction and Storage Temperature Range	T _J , T _S	-65 to +175							°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

 $^{^{2)}}$ P.C.B. mounted with 0.2 X 0.2" (5.0 X 5.0 mm) copper pad areas.



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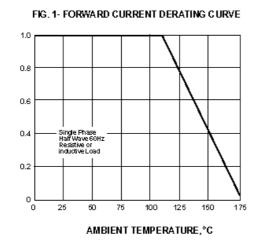






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AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



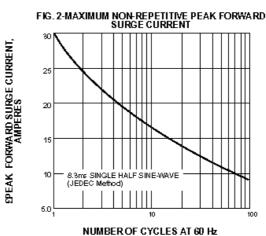
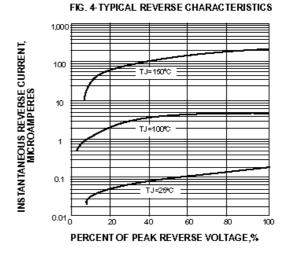
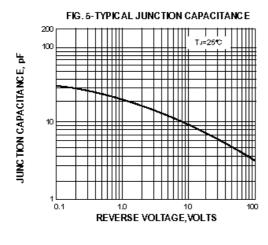
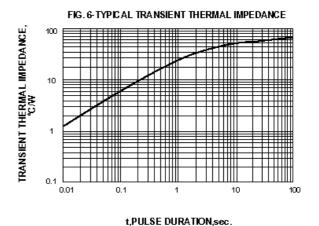


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS 20 10 INSTANTANEOUS FORWARD CURRENTAMPERES 0.01 ao 0.8 1.0 12 1.4 1.5

INSTANTANEOUS FORWARD VOLEAGE, VOLTS









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