

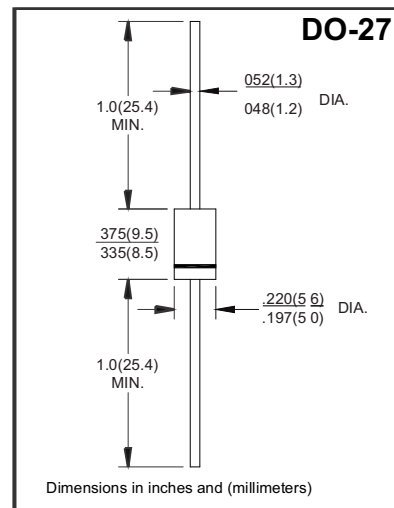
AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

FEATURES

- Glass passivated chip junction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed
260°C/10 seconds, 0.375"(9.5mm) lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.042ounce, 1.19 gram



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%

PARAMETER		SYMBOLS	IN 5400G	IN 5401G	IN 5402G	IN 5404G	IN 5406G	IN 5407G	IN 5408G	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375”(9.5mm) lead length at T _A =105℃		I _(AV)	3.0							Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	125							Amps
Maximum Instantaneous Forward Voltage at 3.0A		V _F	1.0							Volts
Maximum DC Reverse Current at rated DC blocking Voltage at	T _A = 25℃	I _R	5.0							μA
	T _A = 125℃		50							
Maximum Full Load Reverse Current, full cycle Average 0.375(9.5mm) lead length at T _L =75℃		I _{R(AV)}	30							μA
Typical Junction Capacitance (NOTE 1)		C _J	40							pF
Typical Thermal Resistance (NOTE 2)		R _{θJA}	30							℃/W
Operating Temperature Range		T _J	(-55 to +150)							℃
Storage Temperature Range		T _{STG}	(-55 to +150)							℃

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2. Thermal Resistance from Junction to Ambient at 0.375"(9.5mm) lead length, P.C. board mounted.

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RATING AND CHARACTERISTIC CURVES 1N5400G - 1N54008G

FIG.1-TYPICAL FORWARD
CURRENT DERATING CURVE

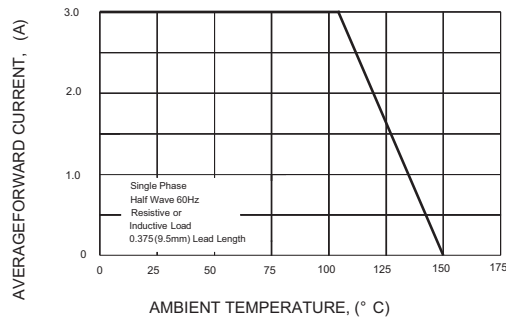


FIG 2-MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

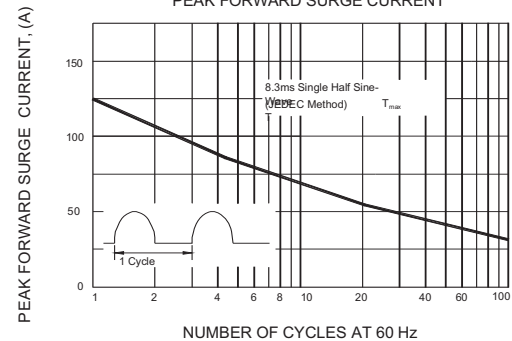


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

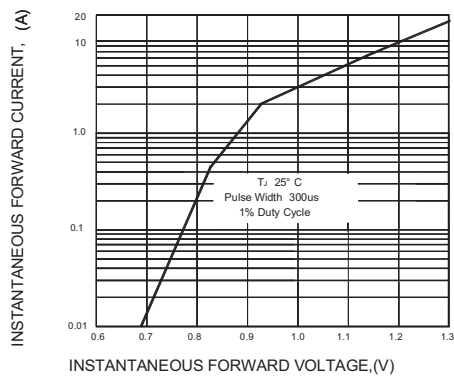


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

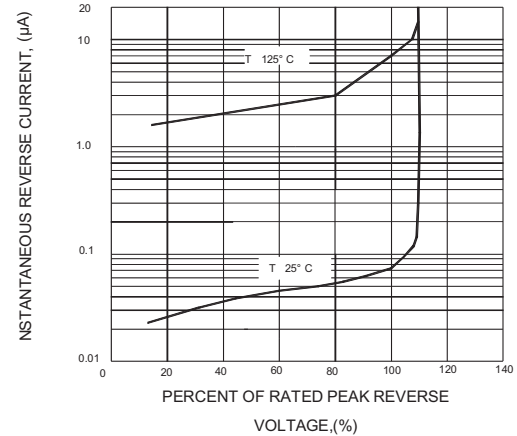
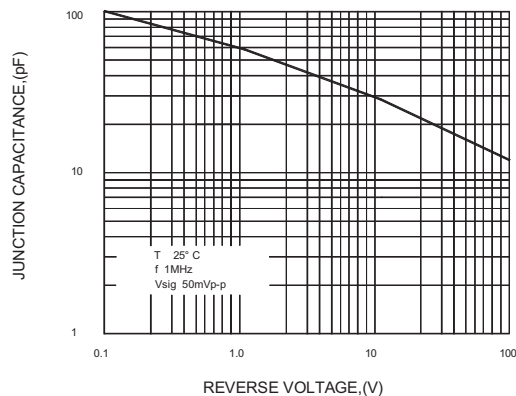


FIG.5-TYPICAL JUNCTION CAPACITANCE



Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.