

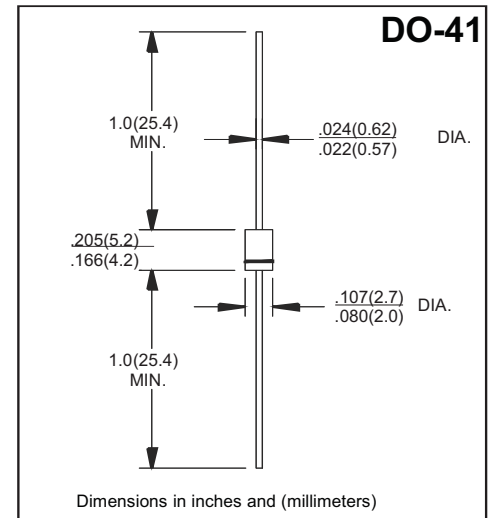
AXIAL GLASS PASSIVATED CHIP JUNCTION RECTIFIER

FEATURES

- Automotive Grade Diode
- Glass passivated chip junction
- Low forward voltage drop
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed
260°C/10 secods,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: 0.012ounce, 0.33 grams



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%

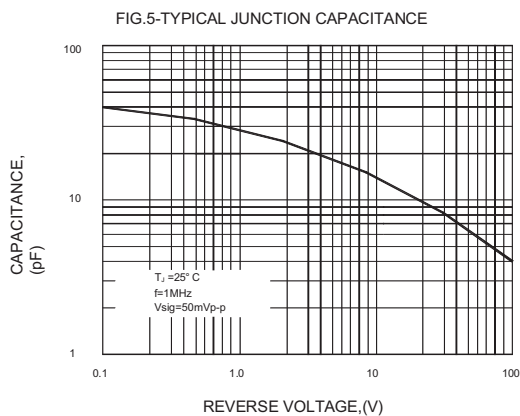
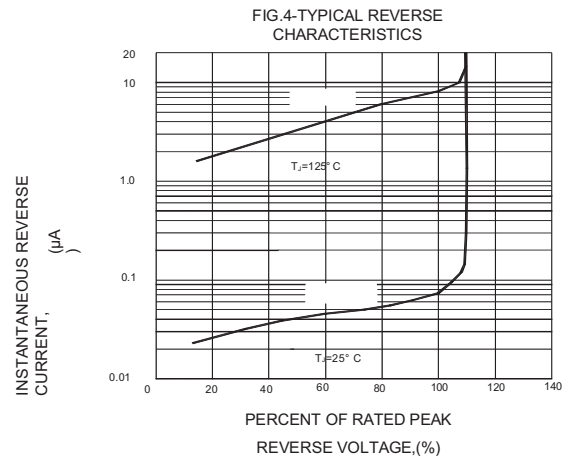
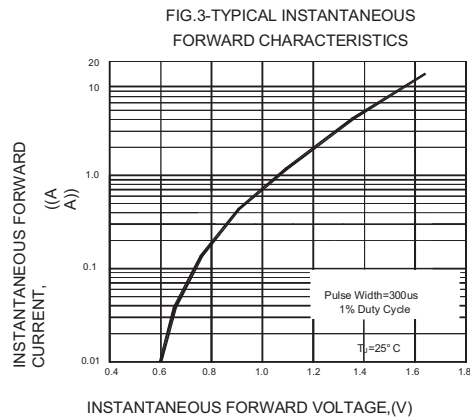
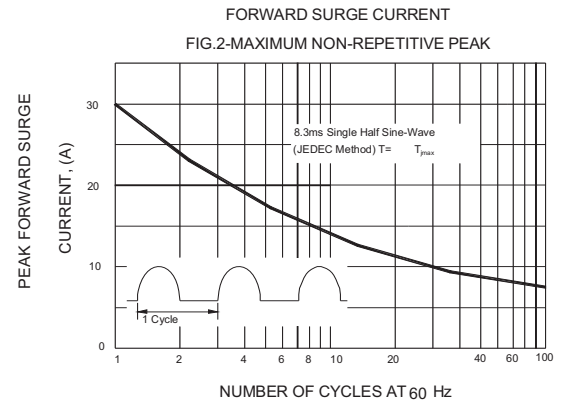
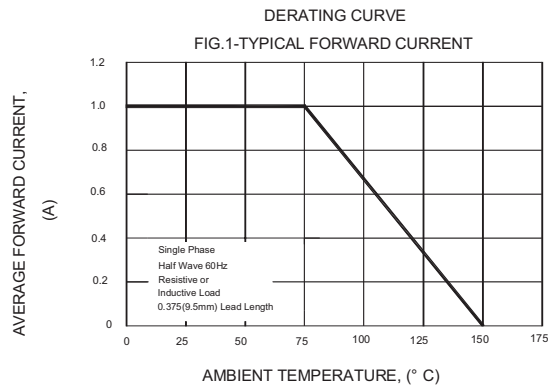
PARAMETER		SYMBOLS	1N 4001G	1N 4002G	1N 4003G	1N 4004G	1N 4005G	1N 4006G	1N 4007G	UNITS
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current(FIG.1) 0.375”(9.5mm) lead length at T _A =75°C		I _(AV)	1.0							Amp
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A		V _F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage at	T _A = 2 5 °C	I _R	5.0							μA
	T _A = 125°C		50							
Maximum Full Load Reverse Current, full cycle Average 0.375(9.5mm) lead length at T _L =75°C		I _{R(AV)}	30							μA
Typical Junction Capacitance (NOTE 1)		C _J	15							pF
Typical Thermal Resistance (NOTE 2)		R _{θJA}	50							°C/W
Operating Junction Temperature Range		T _{JC}	-65 to + 175							°C

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2. Thermal Resistance from Junction to Ambient at. 375"(9.5mm)lead length, P.C. board mounted.

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RATING AND CHARACTERISTIC CURVES 1N4001G - 1N4007G



Disclaimer

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