

AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

1N5391G THRU 1N5399G

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

1.5 Ampere

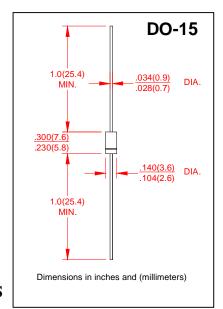
FEATURES

- 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, 0.39 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%

	SYMBOLS	1N 5391G	1N 5392G	1N 5393G	1N 5394G	1N 5395G	1N 5396G	1N 5397G	1N 5398G	1N 5399G	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length at T_A =75 $^{\circ}$ C	$I_{(AV)}$	1.5								Amps	
Peak Forward Surge Current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	50							Amps		
Maximum Instantaneous Forward Voltage at 1.5A	$V_{\rm F}$					1.1					Volts
	I_R	5.0 50								μА	
Maximum Full Load Reverse Current, full cycle Average 0.375(9.5mm) lead length at T _L =75 °C	$I_{R(AV)}$					30					μА
Typical Junction Capacitance (NOTE 1)	C_{J}	20							pF		
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	50								$^{\circ}\! \mathbb{C}/W$	
Operating Temperature Range	T_{J}	(-55 to +150)									$^{\circ}$ C
Storage Temperature Range	T_{STG}	(-55 to +150)									$^{\circ}$ C

Notes:

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

Web Site: www.hkmic.com



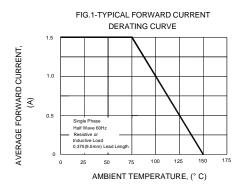
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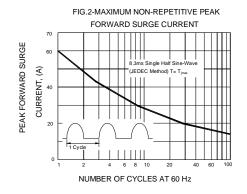
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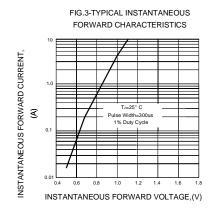
VOLTAGE RANGE CURRENT 50 to 1000 Volts

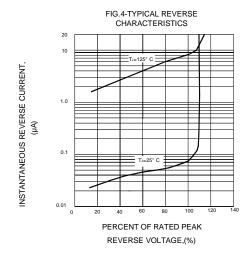
1.5 Ampere

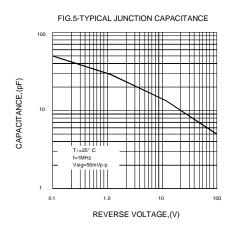
RATING AND CHRACTERISTIC CURVES IN5391G THRU IN5399G











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