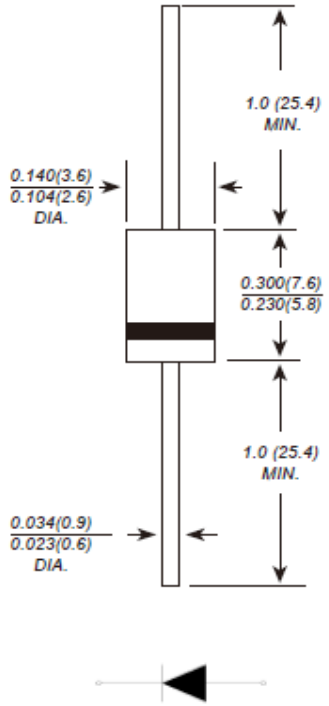
1N5391G~1N5399G

1.5Amp Standard Rectifiers

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-freemolded plastic technique
- Glass Passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250℃/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

DO-15



Dimensions in inches and (milimeters)

MECHANICAL DATA

Case:JEDEC DO-15 molded plastic body

Terminals : Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode end

Mounting Position : Any

Weight : 0.014 ounce, 0.40 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	1N5391 G	1N5392 G	1N5393 G	1N5394 G	1N5395 G	1N5396 G	1N5397 G	1N5398 G	1N5399 G	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current at T_L=100℃	$I_{(AV)}$	1.5									A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}	50.0									A
Maximum Forward Voltage at 1.5A DC	V_F	1.4									V
Peak Reverse Current T_A =25℃	I_R	5.0									μA
at Rated DC Blocking Voltage T_A=125℃		500									
Typical Junction Capacitance (Note1)	C_J	20.0									pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	50.0									℃/W
Operating Temperature Range	T_J	-65 to +150									℃
Storage Temperature Range	T_{STG}	-65 to +150									℃

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to ambient at 0.375 (9.5mm)lead length,P.C.B. mounted

Ratings And Characteristic Curves

FIG. 1- FORWARD CURRENT DERATING CURVE

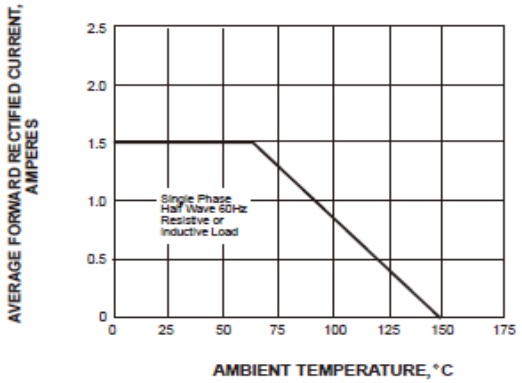


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

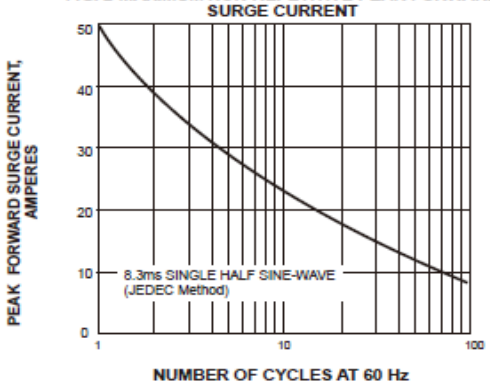


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

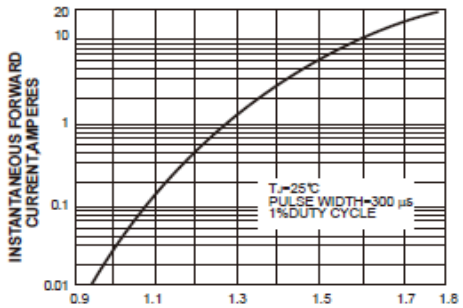


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

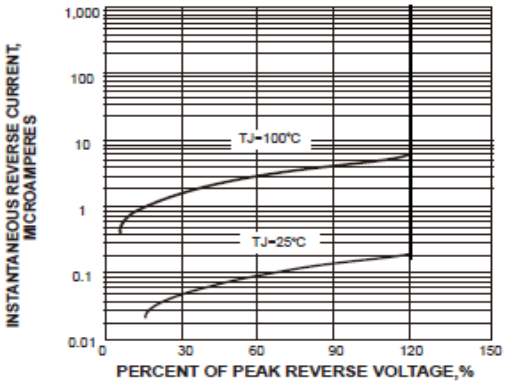


FIG. 5-TYPICAL JUNCTION CAPACITANCE

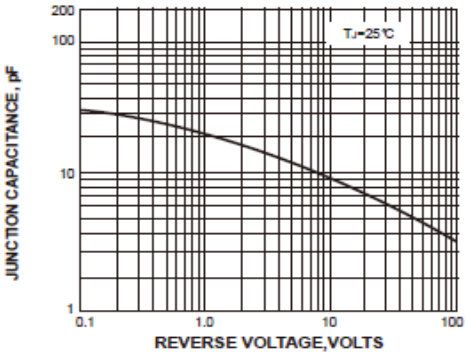


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE