

RGPP15A THRU RGPP15M



GLASS PASSIVATED FAST RECOVERY RECTIFIER

VOLTAGE: 50 TO 1000V CURRENT: 1.5A

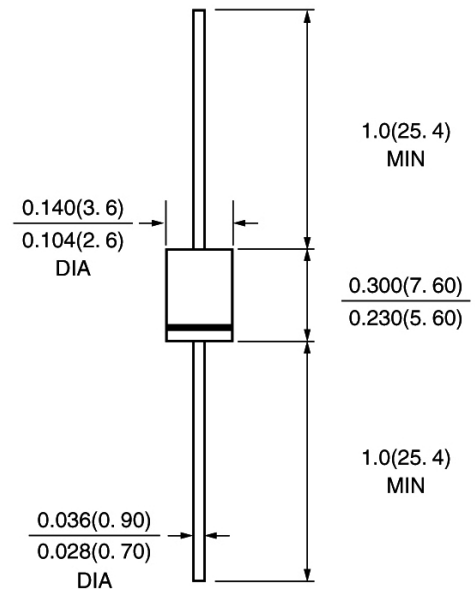
FEATURE

Molded case feature for auto insertion
 High current capability
 Low leakage current
 Fast switching capability
 High temperature soldering guaranteed
 250°C /10sec/0.375" lead length at 5 lbs tension
 Glass Passivated chip

MECHANICAL DATA

Terminal: Plated axial leads solderable per
 MIL-STD 202E, method 208C
 Case: Molded with UL-94 Class V-0 recognized Flame
 Retardant Epoxy
 Polarity: color band denotes cathode
 Mounting position: any

DO-15/DO-204C



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	RGPP 15A	RGPP 15B	RGPP 15D	RGPP 15G	RGPP 15J	RGPP 15K	RGPP 15M	units	
Maximum Recurrent 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 3/8" lead length at Ta =55°C	I _{f(av)}	1.5								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	50.0								A
Maximum Forward Voltage at rated Forward Current and 25°C	V _f	1.3								V
Maximum full load reverse current full cycle average at 55°C Ambient	I _{r(av)}	100.0								µA
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =150°C	I _r	5.0 200								µA µA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	150				250	500		nS	
Typical Junction Capacitance (Note 2)	C _j	25.0							pF	
Typical Thermal Resistance (Note 3)	R(ja)	45.0							°C/W	
Storage and Operating Junction Temperature	T _{stg} , T _j	-50 to +150							°C	

Note:

- Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- Thermal Resistance from Junction to Ambient at 3/8" lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES RGPP15A THRU RGPP15M

FIG. 1 - FORWARD CURRENT DERATING CURVE

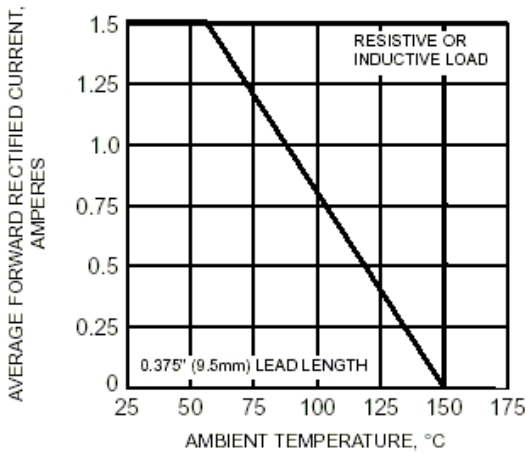


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

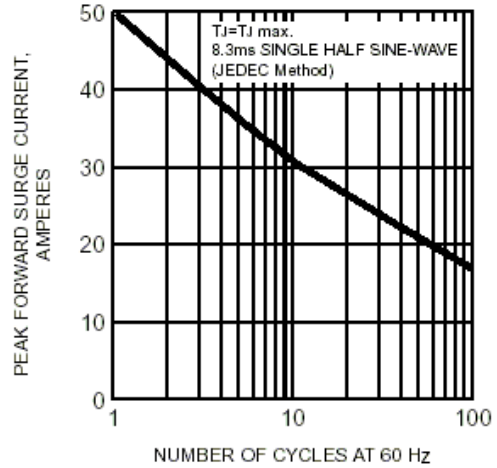


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

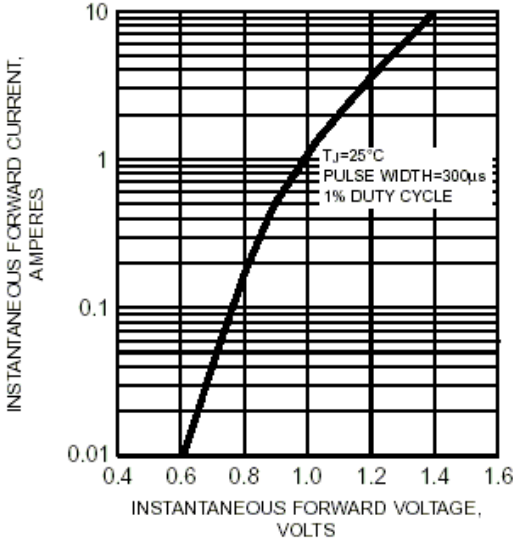


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

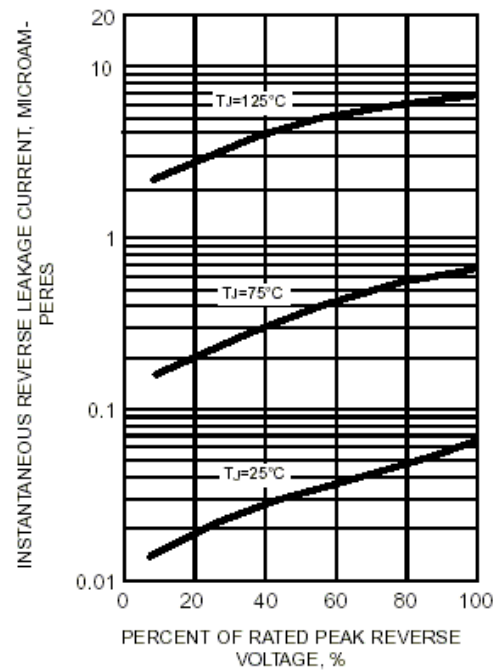


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

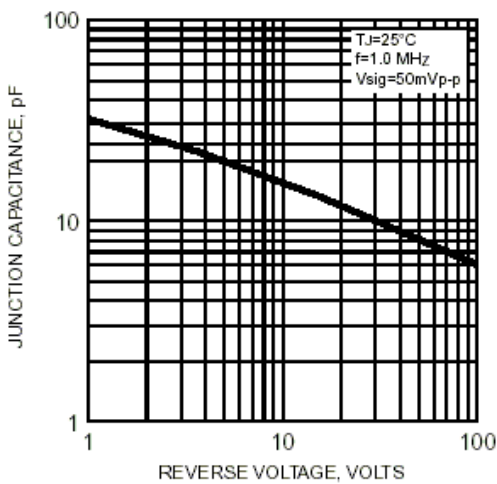


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

