

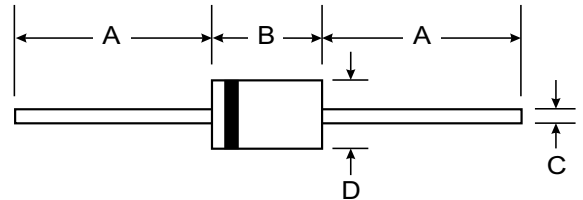
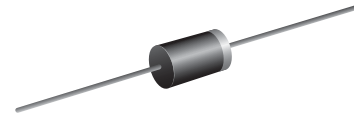
VOLTAGE RANGE: 70 - 600V
CURRENT: 1.0- 1.5A

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

- Case: DO - 15 , Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.40 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



DO-15		
Dim	Min	Max
A	25.40	—
B	5.50	7.62
C	0.686	0.889
D	2.60	3.60
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	RG2Y	RG2Z	RG2	RG2A	Unit
Maximum peak repetitive reverse voltage	V _{RRM}	70	200	400	600	V
Maximum RMS voltage	V _{RMS}	49	140	280	420	V
Maximum DC blocking voltage	V _{DC}	70	200	400	600	V
Maximum average forward rectified current 9.5mm lead length, @T _A =75°C	I _{F(AV)}	1.5	1.2		1.0	A
Peak forward surge current 10ms single half-sine-wave superimposed on rated load @T _J =125°C	I _{FSM}	60.0				A
Maximum instantaneous forward voltage @ I _F =I _{F(AV)}	V _F	1.1	1.5	1.8	2.0	V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	500.0 2500.0				μA
Maximum reverse recovery time (Note1)	t _{rr}	50				ns
Typical junction capacitance (Note2)	C _J	50			30	pF
Typical thermal resistance (Note3)	R _{θJL}	12				°C/W
Operating junction temperature range	T _J	- 55 ----- + 150				°C
Storage temperature range	T _{STG}	- 55 ----- + 150				°C

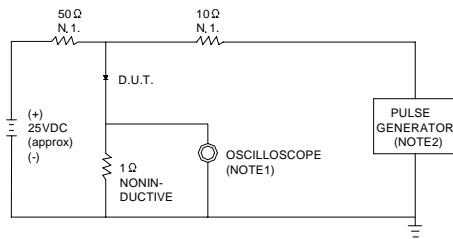
NOTE: 1. Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

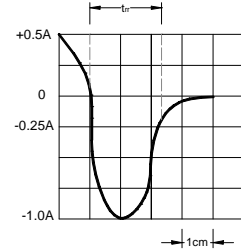
3. Thermal resistance junction to ambient.



FIG.1 – TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES:1.RISE TIME = 7ns MAX.INPUT IMPEDANCE = 1MΩ. 22pF.
2.RISE TIME = 10ns MAX.SOURCE IMPEDANCE=50 Ω.



SET TIME BASE FOR 10/20 ns/cm

FIG.2 – TYPICAL FORWARD CHARACTERISTIC

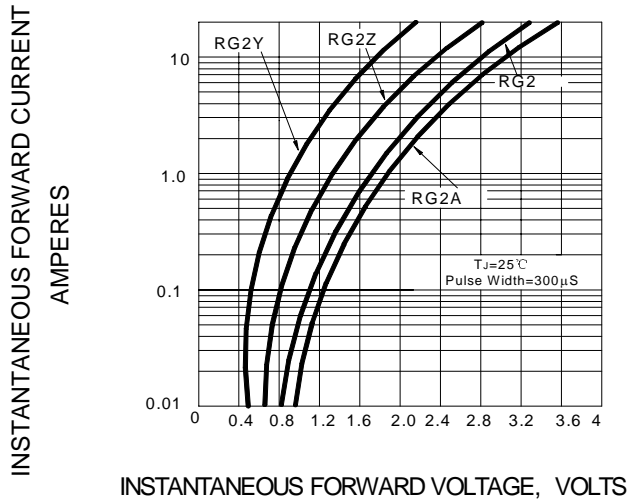


FIG.3 – FORWARD DERATING CURVE

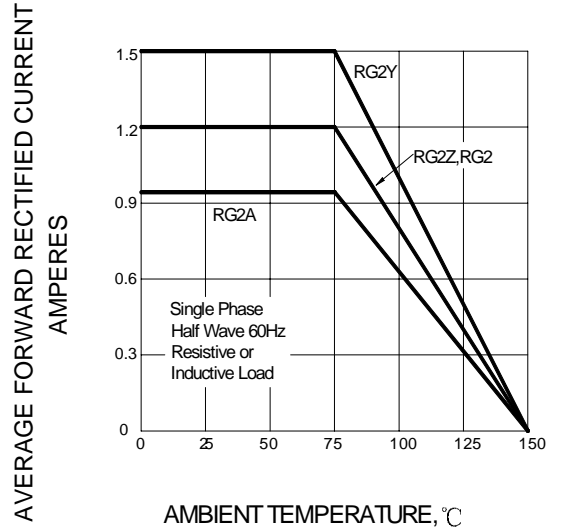


FIG.4 – PEAK FORWARD SURGE CURRENT

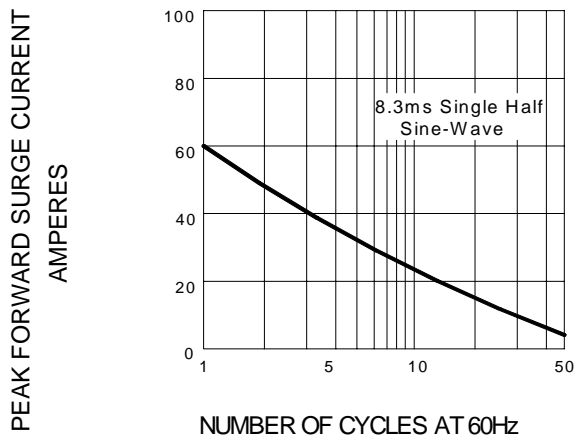


FIG.5 – TYPICAL JUNCTION CAPACITANCE

