

VOLTAGE RANGE: 1200 - 2000V

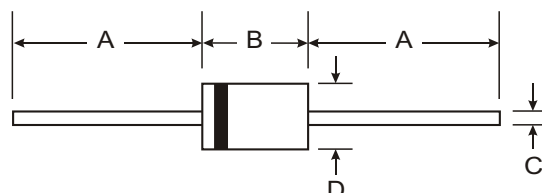
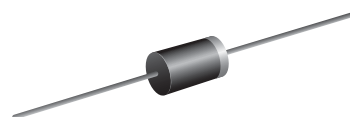
CURRENT: 0.5 A

Features

- Glass passivated junction
- High current capability
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Fast switching for high efficiency

Mechanical Data

- Case : DO-41 Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.339 gram



DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
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	RGP 02-12	RGP 02-14	RGP 02-16	RGP 02-18	RGP 02-20	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1200	1400	1600	1800	2000	Volts
Maximum RMS Voltage	V _{RMS}	840	980	1120	1260	1400	Volts
Maximum DC Blocking Voltage	V _{DC}	1200	1400	1600	1800	2000	Volts
Maximum Average Forward Current 0.375"(9.5mm) Lead Length T _a = 55 °C	I _{F(AV)}	0.5					Amps.
Peak Forward Surge Current 8.3 ms. Single half sine wave Superimposed on rated load (JEDEC Method)	I _{FSM}	20					Amps.
Maximum Peak Forward Voltage at 0.5 Amp.	V _F	2.5					Volts
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 100 °C	I _R	5.0					μA
	I _{R(H)}	50					μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	300					ns
Typical Junction Capacitance (Note 2)	C _J	5.0					pf
Junction Temperature Range	T _J	- 65 to + 150					°C
Storage Temperature Range	T _{STG}	- 65 to + 150					°C

Notes :

- (1) Reverse Recovery Test Conditions : I_F = 0.5 A, I_R = 1.0 A, I_{rr} = 0.25 A.
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 V_{DC}



RATING AND CHARACTERISTIC CURVES (RGP02-12 - RGP02-20)

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

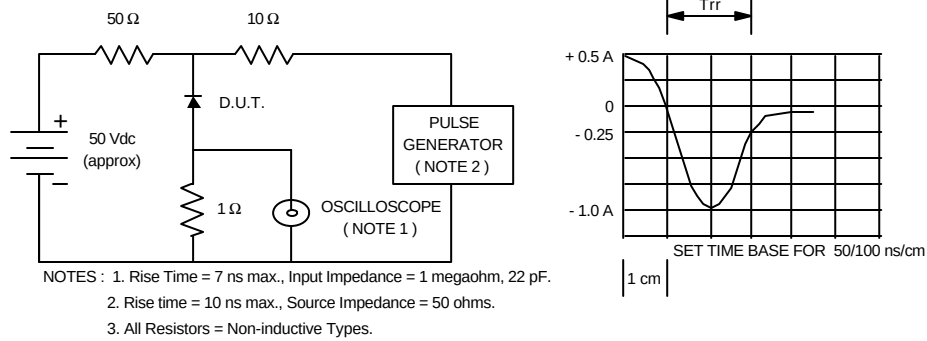


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

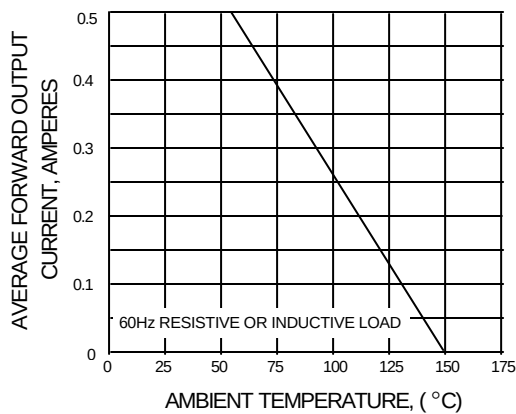


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

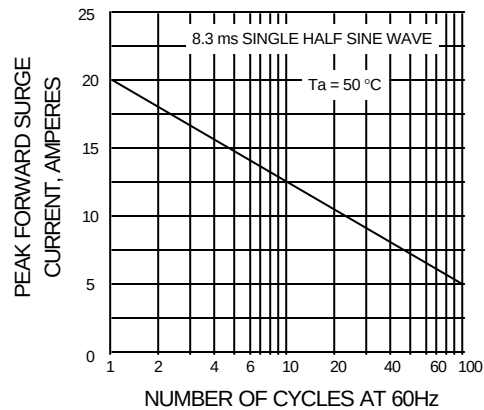


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

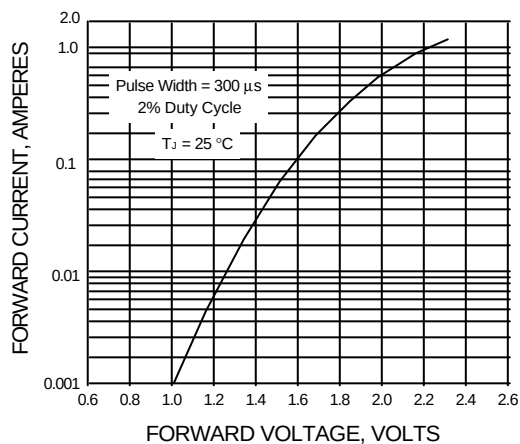


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

