

VOLTAGE RANGE: 1000V

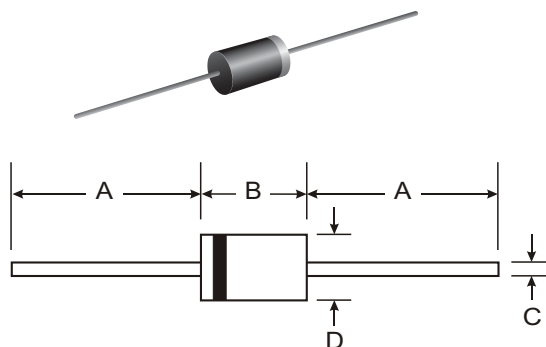
CURRENT: 0.7A

Features

- 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 : 0.34 gram



DO-41 Plastic		
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	RG01C	Unit
Maximum Peak Reverse Voltage	V _{RM}	1000	V
Maximum Peak Reverse Surge Voltage	V _{RSM}	1000	V
Maximum Average Rectified Forward Current (Note1)	I _{F(AV)}	0.7	A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle, Sine wave, Single Shot)	I _{FSM}	10	A
Maximum Forward Voltage at I _F = 0.7 A	V _F	3.3	V
Maximum Forward Current	I _F	0.5	A
Maximum Reverse Current at Reverse voltage	I _R	0.05	mA
Maximum Reverse Current at Reverse voltage T _a = 100 °C	I _{R(H)}	0.5	mA
Maximum Reverse Recovery Time (Note 2)	T _{rr}	100	ns
Junction Temperature Range	T _J	- 40 to + 150	°C
Storage Temperature Range	T _{STG}	- 40 to + 150	°C

Notes :

- (1) Lead Length 10 mm.
- (2) Reverse Recovery Test Conditions : I_F = 100 mA, I_{RP} = 100 mA.

RATING AND CHARACTERISTIC CURVES (RG01C)

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

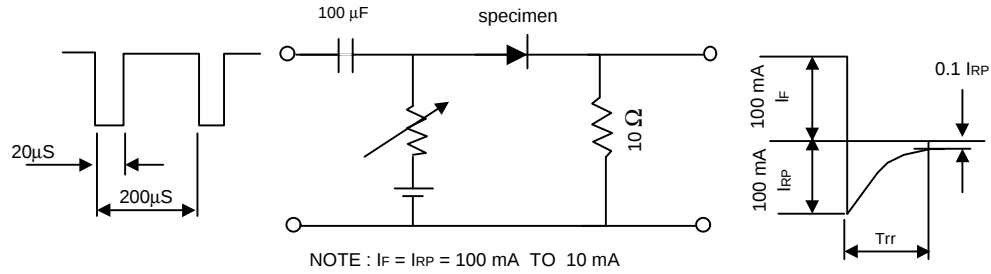


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

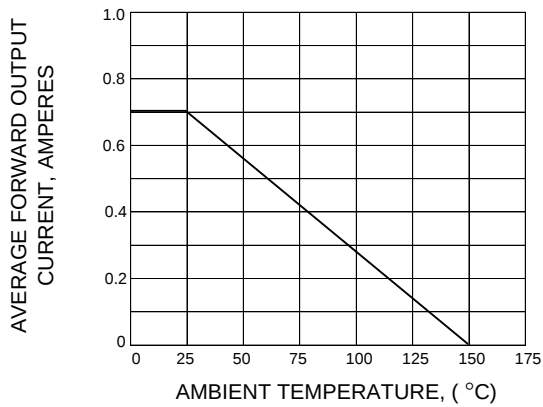


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

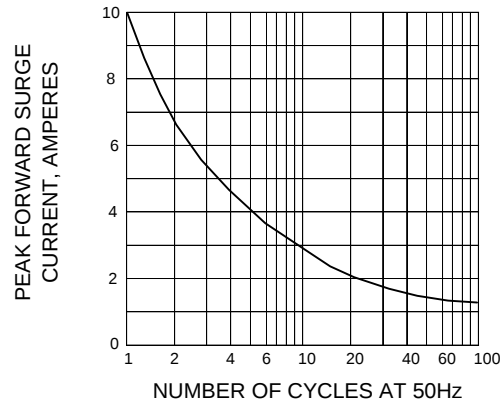


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

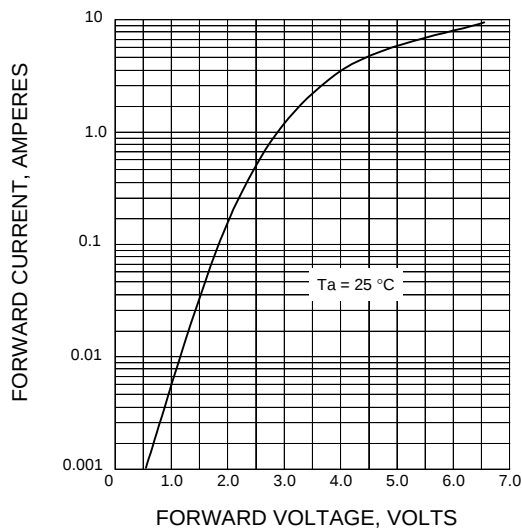


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

