

PG0220

GLASS PASSIVATED HIGH VOLTAGE RECTIFIER

Voltage

2000 V

Current

0.2 A

DO-41

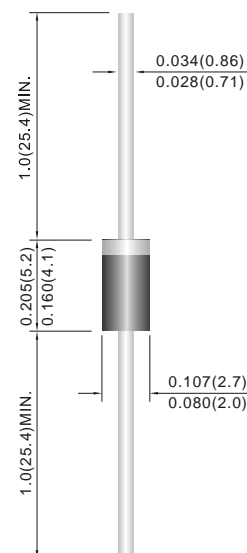
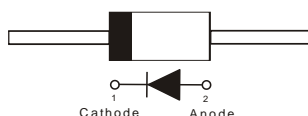
Unit : inch(mm)

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
260 °C/10 seconds, 0.375"(9.5mm) lead length,
5 lbs. (2.3kg) tension
- Lead free in compliance with EU RoHS 2011/65/EU directive

Mechanical Data

- Case: DO-41 package
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Weight: 0.012 ounces, 0.336 grams
- Marking: Part number



Maximum Ratings And Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	2000	V
Maximum rms voltage		V_{RMS}	1400	V
Maximum dc blocking voltage		V_R	2000	V
Maximum average forward rectified current 0.375"(9.5mm) lead length		$I_{F(AV)}$	0.2	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	25	A
Maximum forward voltage at 0.2A		V_F	3	V
Maximum dc reverse current at rated dc blocking voltage	$T_J=25^{\circ}\text{C}$	I_R	5	μA
	$T_J=100^{\circ}\text{C}$		50	
Typical junction capacitance	(Note 1)	C_J	5	pF
Typical thermal resistance	(Note 2)	$R_{\theta JL}$	80	$^{\circ}\text{C/W}$
Operating junction and storage temperature range		T_J, T_{STG}	-55 to +150	$^{\circ}\text{C}$

Note : 1. Measured at 1MHz and applied reverse voltage of 4V D.C.

2. The testing condition of the thermal resistance (junction to lead) is based on 10 mm lead length between two 10cm x 10cm FR4 PCB single-sided copper pad

PG0220

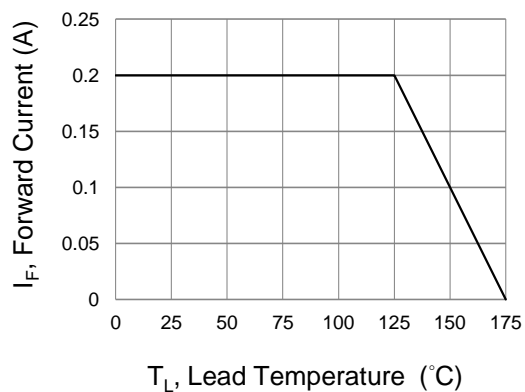


Fig.1 Forward Current Derating Curve

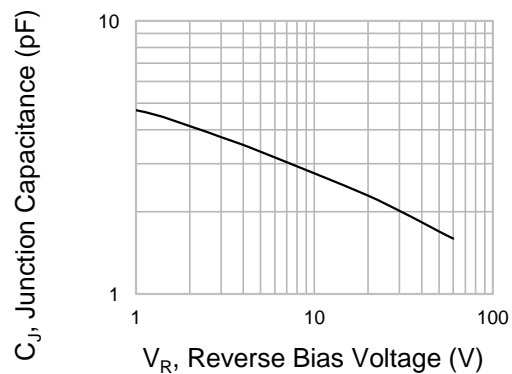


Fig.2 Typical Junction Capacitance

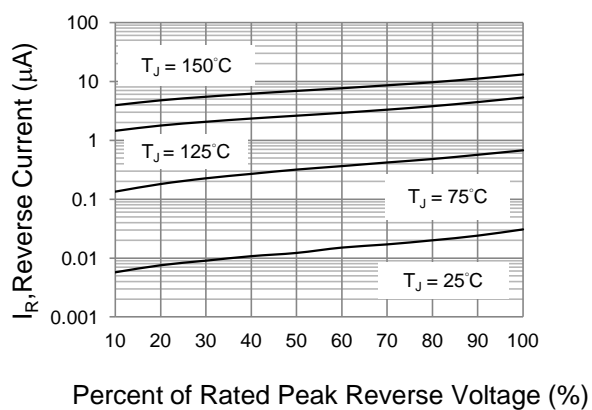


Fig.3 Typical Reverse Characteristics

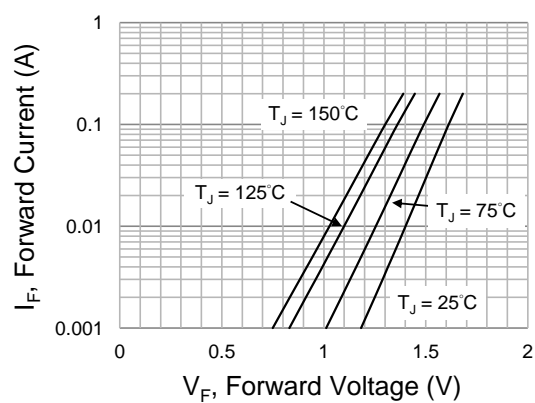


Fig.4 Typical Forward Characteristics

PG0220

Part No_packing code_Version

PG0220_AY_00001

PG0220_AY_10001

PG0220_B0_00001

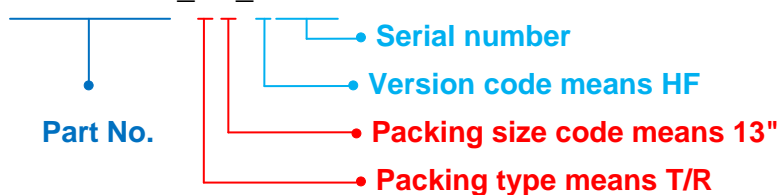
PG0220_B0_10001

PG0220_R2_00001

PG0220_R2_10001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



PG0220

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