

PG150R~PG1510R

GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIERS DO-15 Unit : inch(mm) VOLTAGE 50 to 1000 Volt CURRENT 1.5 Ampere FEATURES 0.034(0.86) • Plastic package has Underwriters Laboratory 1.0(25.4)MIN Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound. · Glass passivated junction · Fast switching for high efficiency. • Lead free in compliance with EU RoHS 2011/65/EU directive 0.300(7.6) 0.230(5.8) **MECHANICAL DATA** 0.140(3.6) • Case: Molded plastic, DO-15 .0(25.4)MIN • Terminals: Axial leads, solderable to MIL-STD-750, Method 2026 · Polarity: Color Band denotes cathode end • Weight: 0.014 ounce, 0.397 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

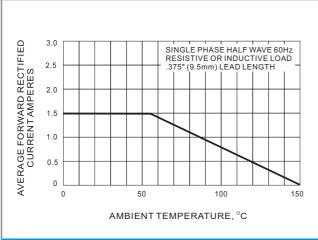
PARAMETER	SYMBOL	PG150R	PG151R	PG152R	PG154R	PG156R	PG158R	PG1510R	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current 0.375"(9.5mm) lead length	I _{F(AV)}	1.5						А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50						A	
Maximum Forward Voltage at 1.5A	V _F	1.3						V	
Maximum DC Reverse Current at Rated DC Blocking $T_{j}=25^{\circ}C$ Voltage $T_{j}=100^{\circ}C$	I _R	1 150							μA
Maximum Reverse Recovery Time (Note 1)	t _{rr}	150 250			250	500		ns	
Typical Junction Capacitance (Note 2)	CJ	35					pF		
Typical Thermal Resistance (Note 3)	R _{eja}	45					°C / W		
Operating Junction and Storage Temperature Range	Tj,Tstg	-55 to +150					°C		

NOTES:1. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Irr=0.25A

2. Measured at 1 MHz and applied reverse voltage of 4 VDC

3. Thermal resistance from junction to ambient and from junction to lead length 0.375"(9.5mm) P.C.B. mounted

RATING AND CHARACTERISTIC CURVES



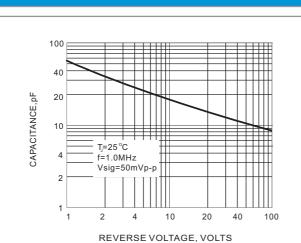
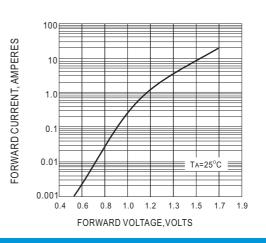


FIG.1 FORWARD CURRENT DERATING CURVE



n Th

FIG.2 TYPICAL FORWARD CHARACTERISTICS

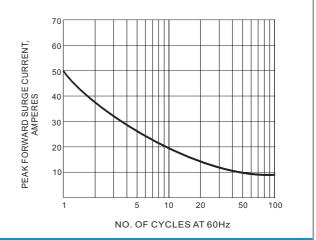


FIG.3 TYPICAL JUNCTION CAPACITANCE

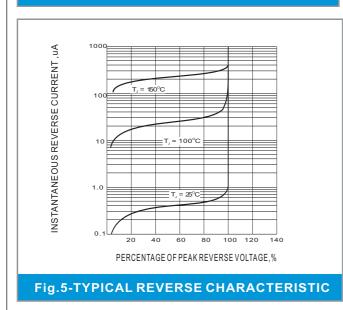


FIG.4 MAX NON-REPETITIVE SURGE CURRENT





PG150R~PG1510R

Part No_packing code_Version

PG150R_AY_00001 PG150R_AY_10001 PG150R_B0_00001 PG150R_B0_10001 PG150R_R2_00001 PG150R_R2_10001

For example :

RB500V-40_R2_00001

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Serial number Version code means HF Packing size code means 13" Packing type means T/R

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)	Α	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	т	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						





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