



FAST RECOVERY RECTIFIERS

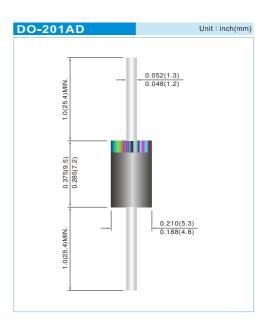
VOLTAGE 50 to 1000 Volt CURRENT 3 Ampere

FEATURES

- Plastic package has Underwriters Laboratory 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

MECHANICAL DATA

- Case: Molded plastic, DO-201AD
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- · Polarity: Color Band denotes cathode end
- Weight: 0.0403 ounce, 1.142 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	PG300R	PG301R	PG302R	PG304R	PG306R	PG308R	PG3010R	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	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Current 0.375"(9.5mm) lead length	I _{F(AV)}	3							А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	125							Α
Maximum Forward Voltage at 3A	V _F	1.3							٧
Maximum DC Reverse Current at Rated $T_J=25^{\circ}C$ DC Blocking Voltage $T_J=100^{\circ}C$	I _R	1 200							μΑ
Maximum Reverse Recovery Time (Note 1)	t _{rr}	150 250 500				00	ns		
Typical Junction Capacitance (Note 2)	CJ	60							pF
Typical Thermal Resistance (Note 3)	$R_{_{\theta JA}}$	22							°C / W
Operating Junction	T _J	-55 to +150						°C	
Storage Temperature Range	T _{STG}	-55 to +150						°C	

Notes

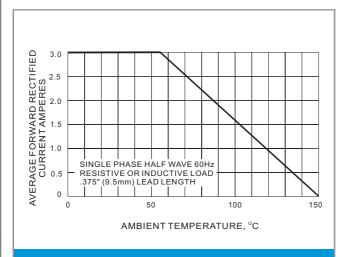
- 1. Reverse recovery test conditions: I_F =0.5A, I_R =1A, I_{rr} =0.25A.
- 2. Measured at 1 MHz and applied reverse voltage of 4 VDC.
- 3. Thermal resistance from junction to lead length 0.375"(9.5mm) P.C.B. mounted.

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RATING AND CHARACTERISTIC CURVES



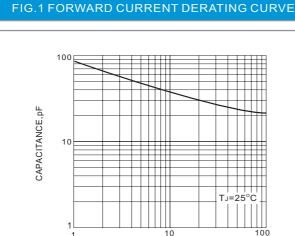


FIG.3 TYPICAL JUNCTION CAPACITANCE

REVERSE VOLTAGE, VOLTS

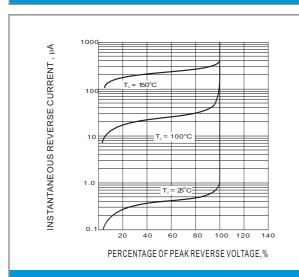


Fig.5-TYPICAL REVERSE CHARACTERISTIC

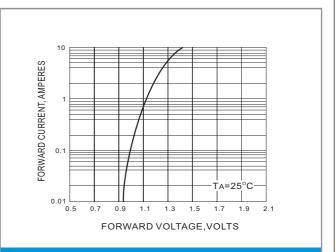


FIG.2 TYPICAL FORWARD CHARACTERISTIC

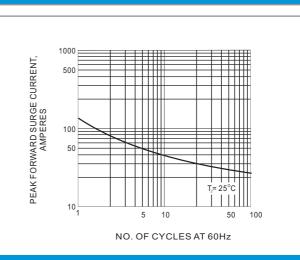


FIG.4 PEAK FORWARD SURGE CURRENT

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Part No_packing code_Version

PG300R_AY_00001

PG300R_AY_10001

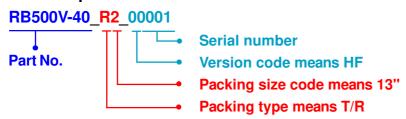
PG300R_B0_00001

PG300R_B0_10001

PG300R_R2_00001

PG300R_R2_10001

For example:



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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