



FAST RECOVERY RECTIFIERS

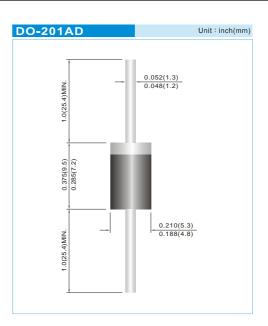
VOLTAGE 50 to 1000 Volt CURRENT 3 Ampere

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	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)}	3							
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	125							А
Maximum Forward Voltage at 3A	V _F	1.3							V
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)	C _J	60							pF
Typical Thermal Resistance (Note 3)	R _{eJA}	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.





RATING AND CHARACTERISTIC CURVES

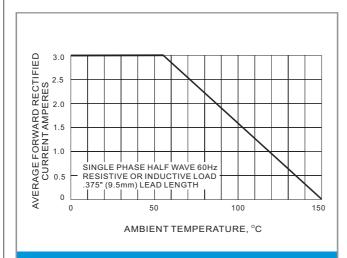


FIG.1 FORWARD CURRENT DERATING CURVE

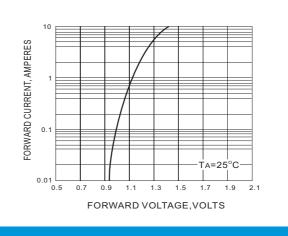


FIG.2 TYPICAL FORWARD CHARACTERISTIC

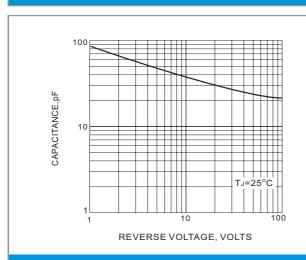


FIG.3 TYPICAL JUNCTION CAPACITANCE

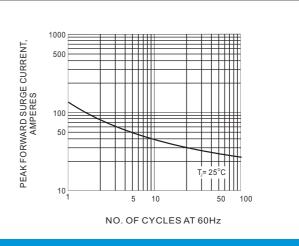
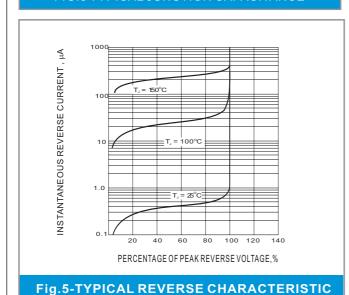


FIG.4 PEAK FORWARD SURGE CURRENT







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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