

General Purpose Rectifier

Voltage 1600 V Current 90 A

Features

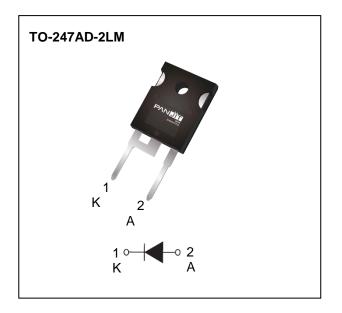
- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated chip junction
- Solder dip 265°C max.10 s, per JESD 22-B106
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Typical Applications

 For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

Mechanical Data

- Case: TO-247AD-2LM Package
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Color Band denotes cathode end
- Approx. Weight: 5.69grams



Maximum Ratings (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT
Maximum Repetitive Peak Reverse Voltage	Vrrm	1600	V
Maximum RMS Voltage	VRMS	1120	V
Maximum DC Blocking Voltage	VDC	1600	V
Average Forward Current			
@Half-Sine Wave, Resistance Load		90	А
With Heatsink T _C =90 °C	1-		
Average Forward Current	lo		
@Half-Sine Wave, Resistance Load		22.5	А
Without Heatsink Tc=25 °C			
Forward Surge Current (Non-repetitive) @50HZ sine wave,1cycle,T _A =25 °C	İFSM	915	А
Current Squared Time	124	4405	A2C
@1ms≤t10≤ms T _A =25 °C , Rating Of Per Diode	l ² t	4185	A ² S
Typical Thermal Resistance	Rejc	0.25	°C/W
Operating And Storage Temperature Range	TJ, Tsтg	-55 to +150	°C

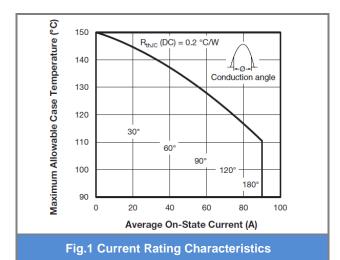


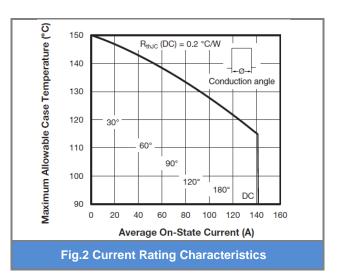
Electrical Characteristics (T_A = 25 °C unless otherwise specified)

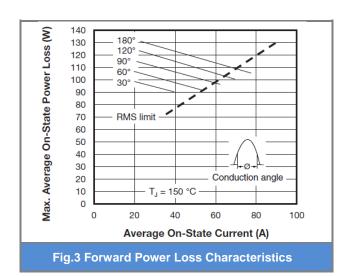
PARAMETER	SYMBOL	TEST CONDITION	LIMIT	UNIT
Peak Forward Voltage	VFM	I _F =90A	1.2	V
		V _R =V _{DC} @T _A =25 °C	5	μА
Peak Reverse Current	IRRM	V _R =V _{DC} @T _A =125°C	500	μΑ
		min	6	1 . 6
Mounting torque	-	max	12	kgf.cm

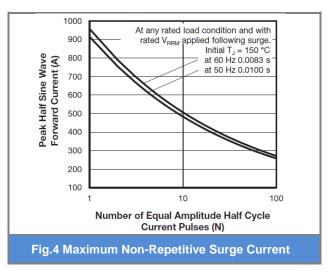


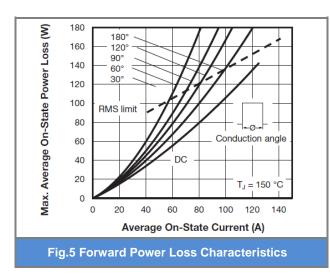
TYPICAL CHARACTERISTIC CURVES

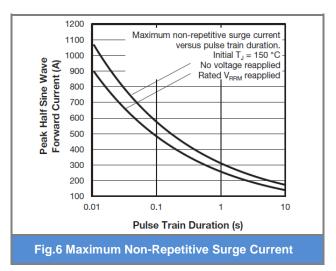


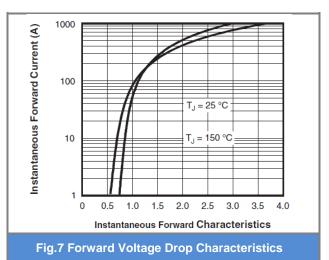










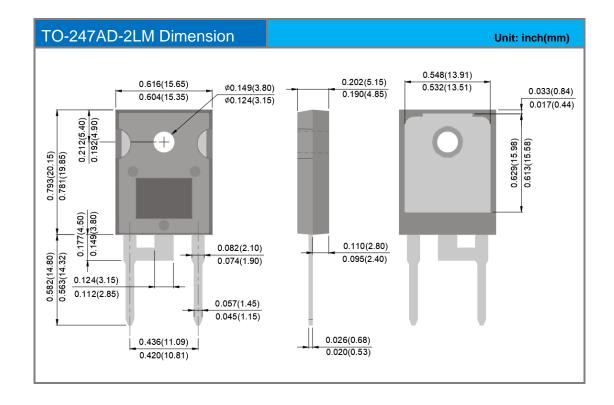




Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
PGR9016PT	TO-247AD-2LM	30 pcs / Tube	PGR9016PT	

Packaging Information





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