

PGR6016PT General Purpose Rectifier Voltage 1600 V Current 60 A TO-247AD-2LM 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 1 • Lead free in compliance with EU RoHS 2.0 Κ

• 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		60	А
With Heatsink Tc=90 °C	1.		
Average Forward Current	Ю		
@Half-Sine Wave, Resistance Load		15	А
With Heatsink Tc=25 °C			
Forward Surge Current (Non-repetitive) @50HZ sine wave,1cycle,T _A =25 °C	IFSM	800	А
Current Squared Time	124	2000	A 20
@1ms≤t10≤ms T _A =25 °C [,] Rating Of Per Diode	14	3200	A ² 5
Typical Thermal Resistance	Rejc	0.35	°C/W
Operating And Storage Temperature Range	TJ, TSTG	-55 to +150	





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

PARAMETER	SYMBOL	TEST CONDITION	LIMIT	UNIT
Peak Forward Voltage	Vfm	I⊧=60A	1.2	V
		V _R =V _{DC} @T _A =25 °C	5	μA
Peak Reverse Current	IRRM	V _R =V _{DC} @T _A =125 °C	500	μA
min	min	6		
Mounting torque	-	max	12	kgr.cm



TYPICAL CHARACTERISTIC CURVES



90

80

70

60

50 40 30

20

10

0

0

10 20 40

30

Average Forward Current (A)

50

Maximum Average Forward Power Loss (W)

180° 120°

90°

60° 30°

RMS limit









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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
PGR6016PT	TO-247AD-2LM	30 pcs / Tube	PGR6016PT

Packaging Information





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