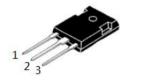


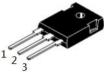
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COMPLIANT

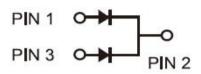
SCHOTTKY BARRIER RECTIFIER



TO-247/PT



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Primary Characteristic

I _O	2*30A
V _{RRM}	45V
I _{FSM}	450A
V _F	0.56V
T _J max	150 ℃
Assembly code	BY

FEATURES

- Low forward voltage
- High current capability
- High forward surge capability
- Low power losses, High efficiency
- Guarding for over voltage protection



APPLICATIONS

Low VF Schottky barrier rectifier are designed for high freqency, miniature switched mode power supplies such as adapters ,lighting and on-board DC/DC conerters

MECHANICAL DATA

- Case: Molded plastic
- Polarity: As marked
- Mounting Position: Any
- Molded Plastic: UL Flammability Classification Rating 94V-0
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Solder bath temperature 275 °C maximum,10s per JESD 22-B106

Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified

Characteristics		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Volt	age	V _{RRM}	45	V
Working Peak Reverse Voltage		V _{RWM}	45	V
Maximum DC Blocking Voltage		V _{DC}	45	V
Maximum Average Forward Rectified	Per Leg	1	30	۸
Current	Total	1 ₀	60	A
Peak Forward Surge Current,8.3 ms Sir Superimposed on Rated Load (JEDEC I		I _{FSM}	450	A
Operating Temperature Range		ΤJ	150	°C
Storage Temperature Range		T _{STG}	-40 to +150	°C
Typical Thermal Resistance (Note1)		R _{θ JC}	2	°C/W
Note1: Thermal resistance from Junctio	n to case per leg mo	unted on heatsin	k.	

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics	6	Symbol	Va	alue	Unit
Forward Voltage Drop(Note2)			Тур.	Max.	
at I₌=30A	TA=25°C	V _F	0.56	0.61	V
at $I_{\rm F}$ = 50A	TA=125°C		0.51	-	
Maximum Bayaraa Current at 1/ =451/	TA=25°C		20	50	μA
Maximum Reverse Current at V_R =45V	TA=125°C	IR	7	-	mA

Note2:Pulse test: 300 µs pulse width, 1 % duty cycle



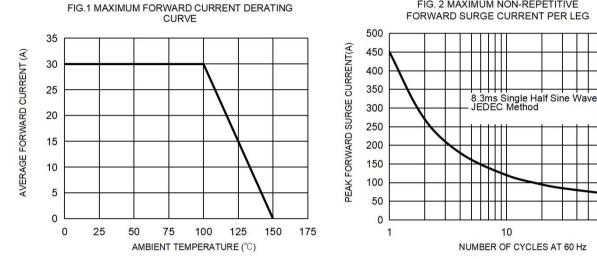
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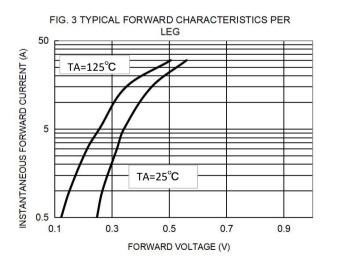
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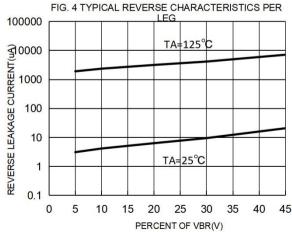
SCHOTTKY BARRIER RECTIFIER

RATINGS AND CHARACTERISTIC CURVES

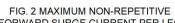
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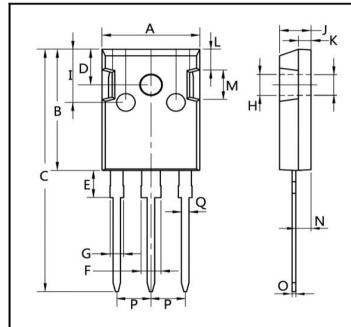




SCHOTTKY BARRIER RECTIFIER

Package Outline Dimensions millimeters

TO-247



Dim.	Min.	Max.		
A	15.0	<mark>16.</mark> 0		
В	20.0	21.0		
С	40.0	42.0		
D	5.5	6.5		
E	4.0 5.5			
F	2.5 3.5			
G	1.75	2.5		
Н	3.0	4.0		
1	8.0	10.0		
J	4.9	5.1		
K	1.9	2.1		
L	3.0	4.0		
M	4.75	5.25		
N	2.0	3.0		
0	0.55	0.65		
Р	Тур 5.4			
Q	1. <mark>1</mark> 7	1.3		

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