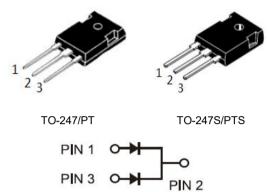


SCHOTTKY BARRIER RECTIFIER



APPLICATIONS

FEATURES Low forward voltage · High current capability · High forward surge capability • Low power losses, High efficiency • Guarding for over voltage protection

on-board DC/DC conerters

Low VF Schottky barrier rectifier are designed for high frequency, miniature switched mode power supplies such as adapters ,lighting and

Primary Characteristic

I _o	2*15A		
V_{RRM}	45V		
I _{FSM}	300A		
V_{F}	0.58V		
T _J max	150℃		
Assembly code	AK		

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 Voltage		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	_	15	^
Current	Total	' o	30	A
Peak Forward Surge Current,8.3 ms Sing Superimposed on Rated Load (JEDEC m		I _{FSM}	300	A
Operating Temperature Range		T_J	150	°C
Storage Temperature Range		T _{STG}	-40 to +15	60 °C
Typical Thermal Resistance (Note1)		$R_{\theta JC}$	2	°C/W

Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

Electrical Characteristics (Per Leg) unless otherwise specified

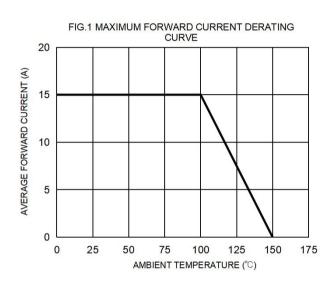
Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)	ote2)		Тур.	Max.	
at I _F =5A	TA=25°C	1	0.48	-	
	TA=125°C	1	0.41	-	
at I _F =10A	TA=25°C	V_{F}	0.56	0.60	V
	. I _F - 10A	TA=125°C		0.51	-
at I _F =15A	TA=25°C		0.63	0.66	
	TA=125°C		0.58	-	
Maximum Reverse Current at V _R =45V	TA=25°C	I _R	8	50	μA
	TA=125°C		5	-	mA

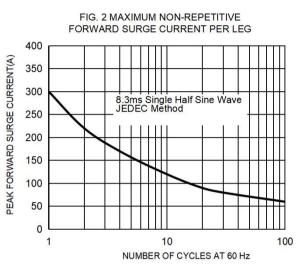
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

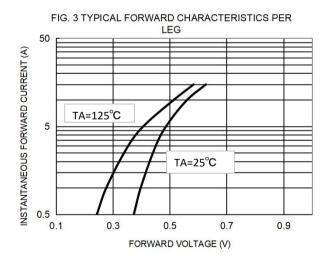


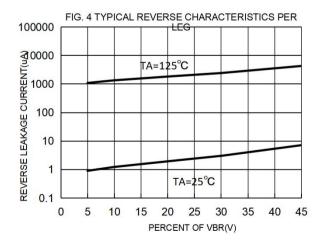
SCHOTTKY BARRIER RECTIFIER

RATINGS AND CHARACTERISTIC CURVES







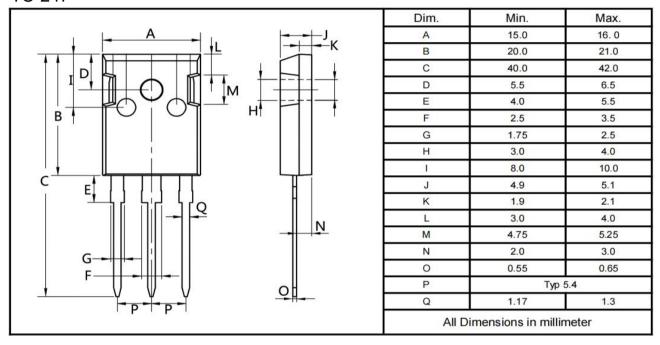




SCHOTTKY BARRIER RECTIFIER

Package Outline Dimensions millimeters

TO-247



TO-247S

