

Pb Free Plating Product

S15U45S



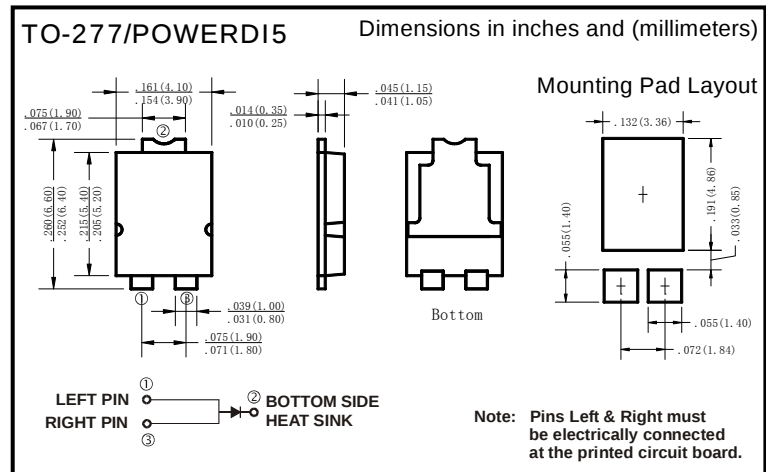
15 Ampere Lower VF Miniature Surface Mount Schottky Barrier Rectifier

■ Features

- High surge Forward current capability
- Low Power loss, High efficiency
- IF (AV) 15A
- VRRM 45V

■ Applications

- Switching Power Supply Industry
- Photovoltaic Solar cell Protection Schottky Rectifier



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	S15U45S
Repetitive Peak Reverse Voltage	VRRM	V		45
Average Rectified Output Current	I _O	A	60HZ sine wave, R- load, Ta=25°C	15
Surge(Non-repetitive)Forward Current	IFSM	A	60HZ sine wave, 1 cycle, Ta=25°C	300
Current Squared Time	I ² _t	A ² s	1ms≤t<8.3ms T _j =25°C	375
Storage Temperature	T _{stg}	°C		-55 ~ +150
Junction Temperature	T _j	°C		-55~+150
Thermal Resistance(Typical)	R _{θJ-C}	°CW	Between Junction and Case	8

Electrical Characteristics (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Min	Typ	Max
Peak Forward Voltage	VFM	V	I _{FM} =15.0A, T _j =25°C	-	0.43	0.46
			I _{FM} =15.0A, T _j =125°C	-	0.38	0.41
Reverse Breakdown Voltage	VBR	V	I _R =0.5mA	45	-	-
Leakage Current	I _R	mA	VR=45V, T _j =25°C	-	-	0.5
			VR=45V, T _j =125°C	-	-	100

Rating and Characteristic Curves

