

Pb Free Plating Product

S10U45S



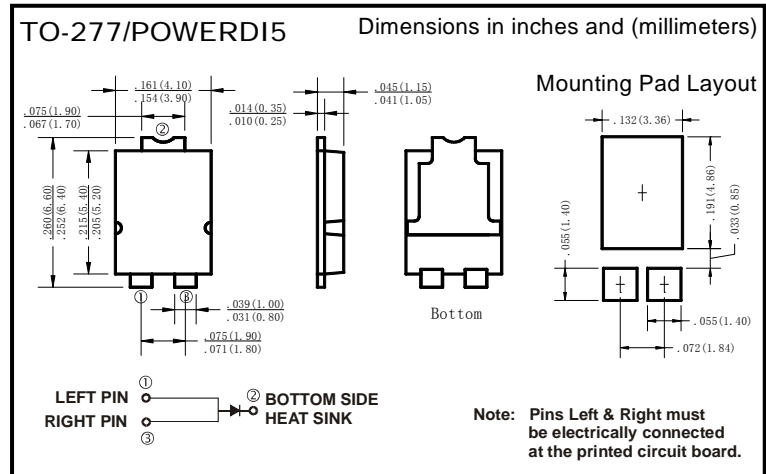
10 Ampere Lower VF Miniature Surface Mount Schottky Barrier Rectifier

Features

- High surge Forward current capability
- Low Power loss, High efficiency
- IF (AV) 10A
- VRRM 45V

Applications

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



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	S10U45S
Repetitive Peak Reverse Voltage	VRRM	V		45
Average Rectified Output Current	Io	A	60HZ sine wave, R- load, Ta=25°C	10
Surge(Non-repetitive)Forward Current	IFSM	A	60HZ sine wave, 1 cycle, Ta=25°C	275
Current Squared Time	i ² t	A ² s	1ms ≤ t < 8.3ms Tj=25°C	313
Storage Temperature	Tstg	°C		-55 ~ +150
Junction Temperature	Tj	°C	IN DC Forward Mode-Forward Operations without reverse bias, t ≤ 1 h (Fig. 1)① ,	-55~+200

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

Item	Symbol	Unit	Test Condition	Max	
Peak Forward Voltage	VFM	V	IFM =10.0A	0.47	
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _R RM	Tj=25°C	0.3
	I _{RRM2}			Tj=100°C	15
Thermal Resistance(Typical)	RθJ-L	°C/W	Between Junction and Lead	10	

Rating and Characteristic Curves

