

# Schottky Rectifier

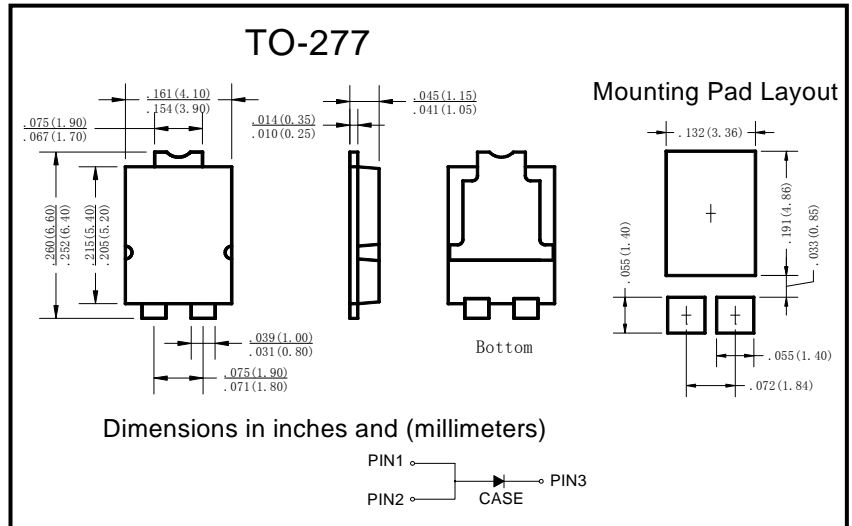
## ■ Features

- 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

## ■ Outline Dimensions and Mark



## ■ Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	SS10U45
Repetitive Peak Reverse Voltage	VRRM	V		45
Average Rectified Output Current	I <sub>o</sub>	A	60HZ sine wave, R- load, T <sub>a</sub> =25°C	10
Surge(Non-repetitive)Forward Current	IFSM	A	60HZ sine wave, 1 cycle, T <sub>a</sub> =25°C	275
Current Squared Time	I <sup>2</sup> t	A <sup>2</sup> s	1ms ≤ t < 8.3ms T <sub>j</sub> =25°C	313
Storage Temperature	T <sub>stg</sub>	°C		-55 ~ +150
Junction Temperature	T <sub>j</sub>	°C	IN DC Forward Mode-Forward Operations without reverse bias, t ≤ 1 h (Fig. 1)① ,	-55~+200

## ■ Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max	
Peak Forward Voltage	VFM	V	I <sub>FM</sub> = 10.0A	0.47	
Peak Reverse Current	I <sub>RRM1</sub>	mA	V <sub>RM</sub> = V <sub>RRM</sub>	T <sub>j</sub> = 25°C	0.3
	I <sub>RRM2</sub>			T <sub>j</sub> = 100°C	15
Thermal Resistance(Typical)	R <sub>θJ-L</sub>	°C/W	Between Junction and Lead	10	

## Rating and Characteristic Curves

