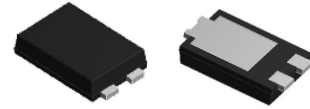


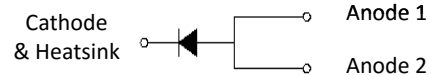
Surface Mount Schottky Rectifier
Reverse Voltage 45V , Forward Current 5A

Features

- Schottky barrier diodes
- Low forward voltage drop
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- Solder dip 260 °C, 10 s
- Low profile
- Heatsink design



TO-277



TYPICAL APPLICATIONS

For low voltage high frequency inverters, DC/DC converters and polarity protection application.

Maximum Ratings (Ta=25°C Unless otherwise specified)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage Peak Reverse Voltage	V_{RRM} V_{RWM} V_{RM}	45	V
RMS Reverse voltage	$V_{R(RMS)}$	31.5	V
Average Rectified Output Current	I_O	5	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	100	A
Junction Temperature Range	$T_{j MAX}$	150	°C
Storage Temperature Range	T_{stg}	-55~150	°C
Typical Thermal Resistance	$R_{\theta JA}$ (Note 1)	73	°C/W

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

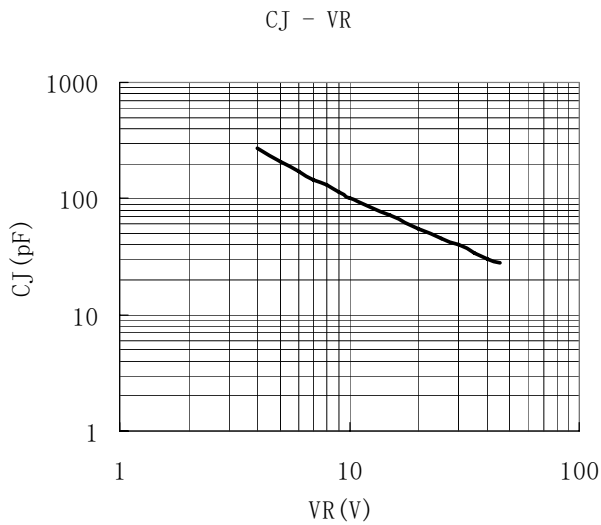
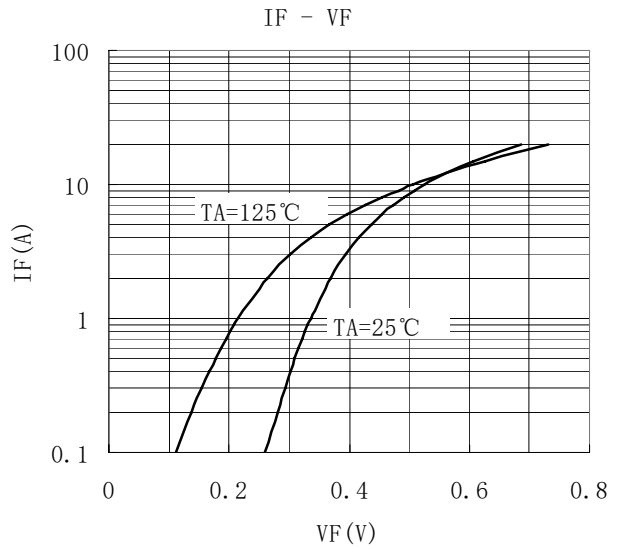
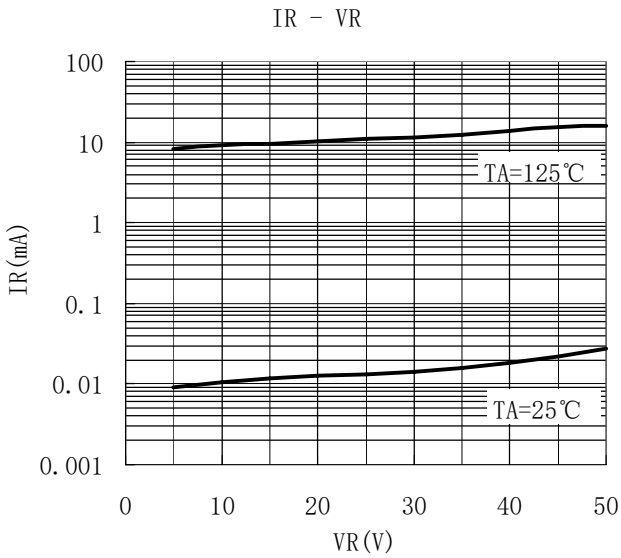
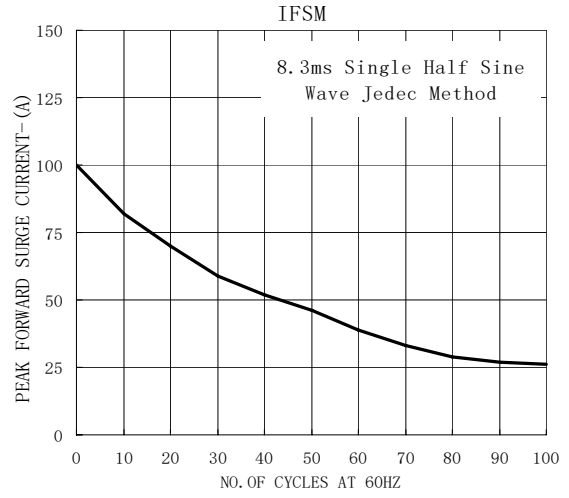
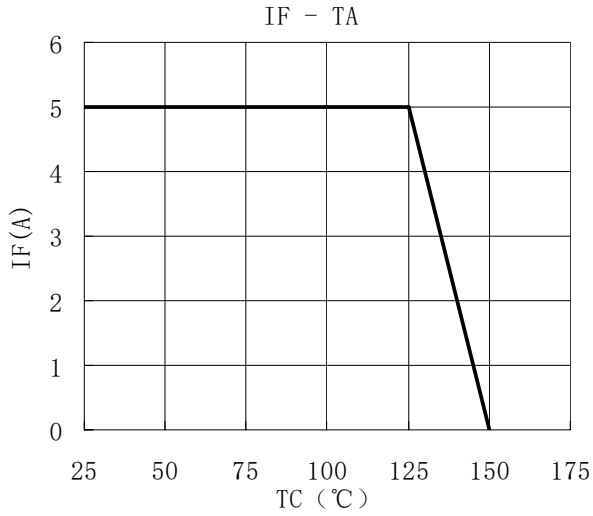
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_R	$I_R=0.3mA$	45			V
Forward voltage	V_F	$I_F=2A$ $T_J=25^\circ C$		0.37	0.42	V
		$I_F=2A$ $T_J=125^\circ C$		0.26		V
		$I_F=5A$ $T_J=25^\circ C$		0.43	0.48	V
		$I_F=5A$ $T_J=125^\circ C$		0.37		V
Instantaneous Reverse Current	I_R (Note 2)	$V_R=45V$ $T_J=25^\circ C$		0.02	0.3	mA
		$V_R=35V$ $T_J=85^\circ C$		1.8	10	mA
		$V_R=45V$ $T_J=125^\circ C$		15	100	mA

Notes :

1. FR-4 PCB, 2oz. Copper, minimum recommended pad layout per.
2. Short duration pulse test used to minimize self-heating effect.



Rating and Characteristic Curves



PACKAGE OUTLINE DIMENSIONS

