

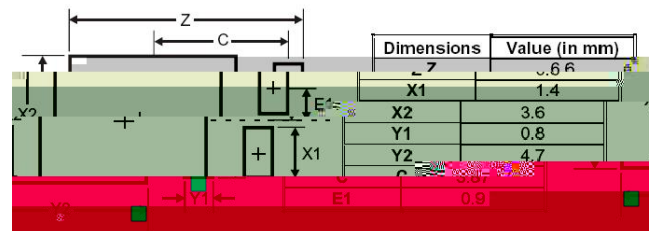
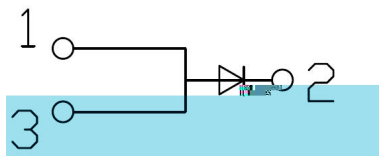
TO-277

TO-277 Plastic package Schottky diode.

$$V_F(\text{typ})=0.35\text{V}$$

High Forward Surge Capability, Ultra Low Forward Voltage Drop $V_F(\text{typ})=0.36\text{V}$, Excellent High Temperature Stability. HF Product.

For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.



PIN1 Anode PIN 2 Cathode PIN 3 Anode

Suggested Pad layout

See Marking Instructions.

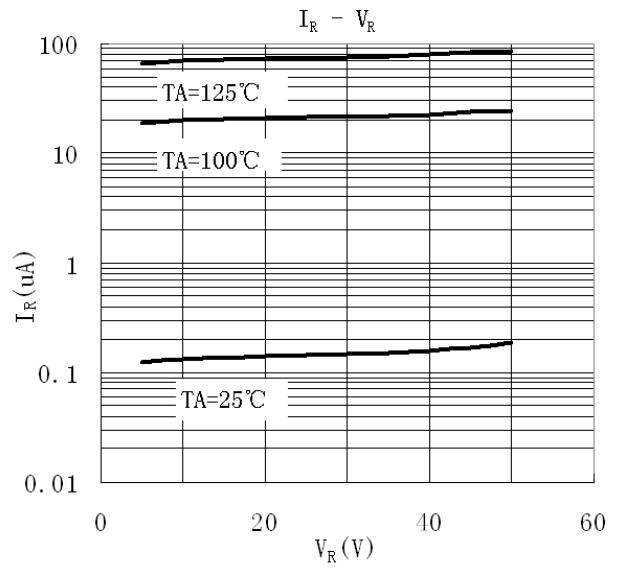
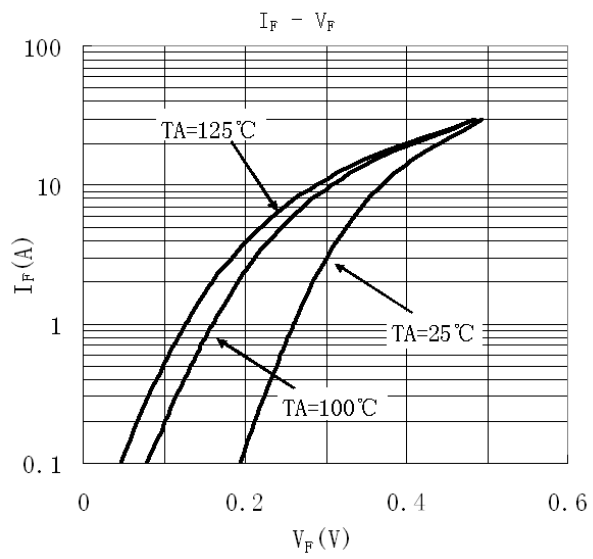
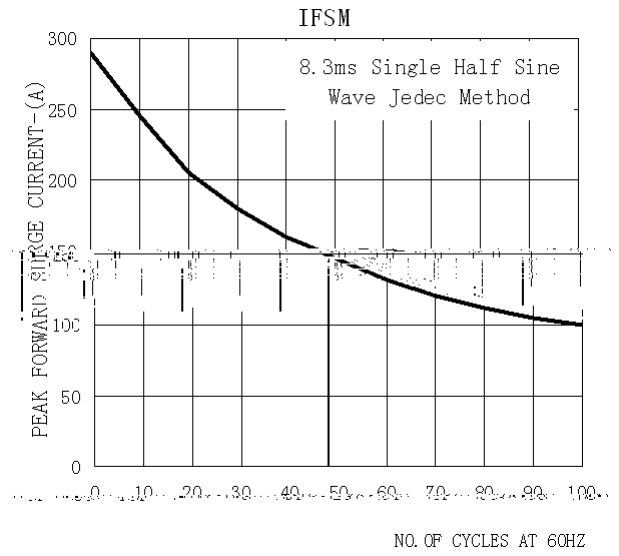
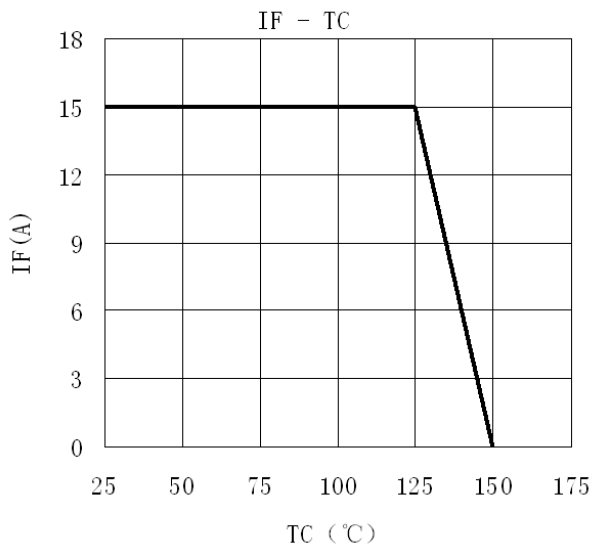
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_{RM}	50	V
RMS voltage	$V_{R(RMS)}$	45	V
Average Output Rectified Current	I_O	15	A
Non Repetitive Peak Surge Current	I_{FSM}	290	A
Junction Temperature Range	T_{jMAX}	150	
Storage Temperature Range	T_{stg}	-55~150	
Thermal Resistance Junction to Case	R_{JC} (Note 1)	73	/W

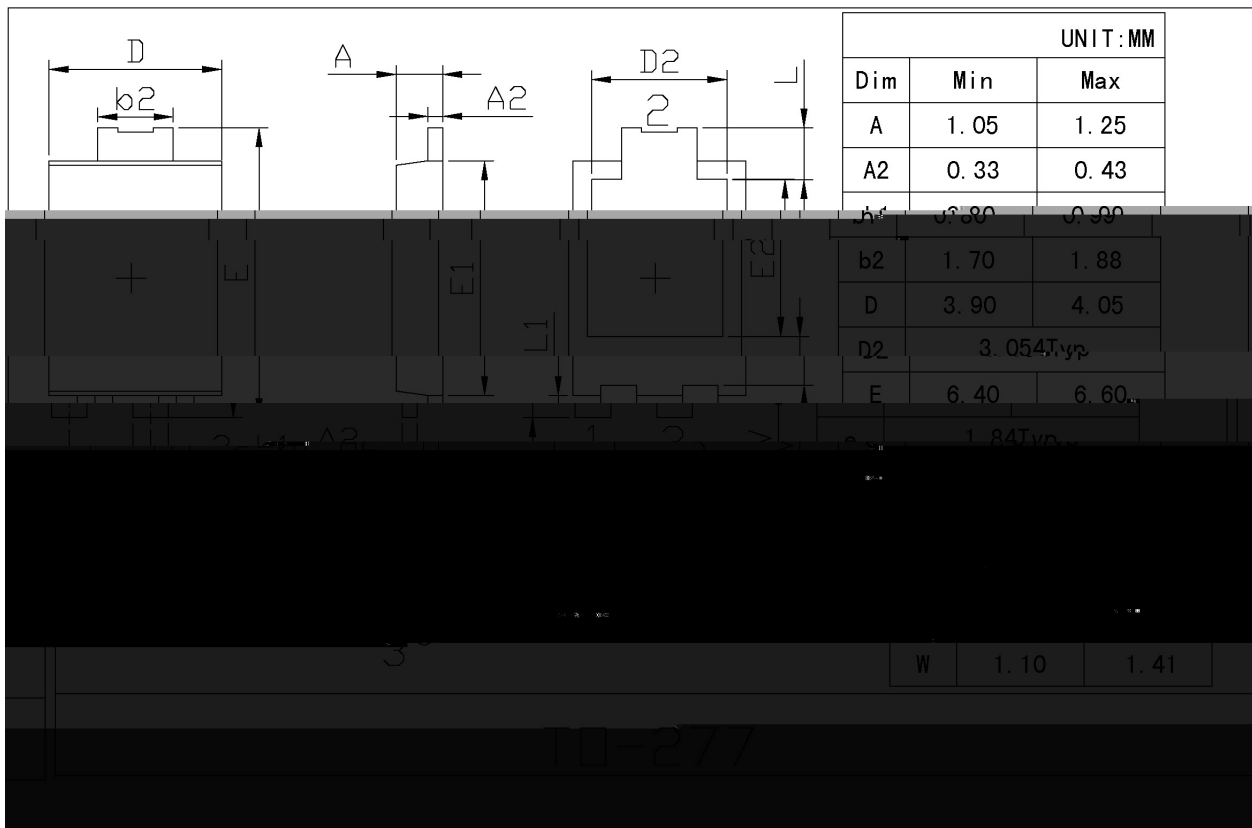
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_R	$I_R=0.5mA$	50			V
Forward Voltage	V_F	$I_F=10A$ $T_J=25^{\circ}C$		0.37	0.44	V
		$I_F=10A$ $T_J=125^{\circ}C$		0.29		V
		$I_F=15A$ $T_J=25^{\circ}C$		0.41	0.47	V
		$I_F=15A$ $T_J=125^{\circ}C$		0.35		V
Instantaneous Reverse Current	I_R (Note 2)	$V_R=50V$ $T_J=25^{\circ}C$		168	500	μA
		$V_R=50V$ $T_J=100^{\circ}C$			50	mA
		$V_R=50V$ $T_J=125^{\circ}C$			105	mA

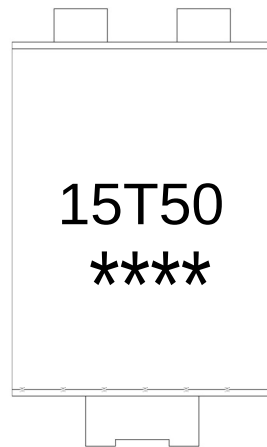
Notes:

layout per. /FR-4 PCB, 2oz. Copper, minimum recommended pad

Short duration pulse test used to minimize self-heating effect.





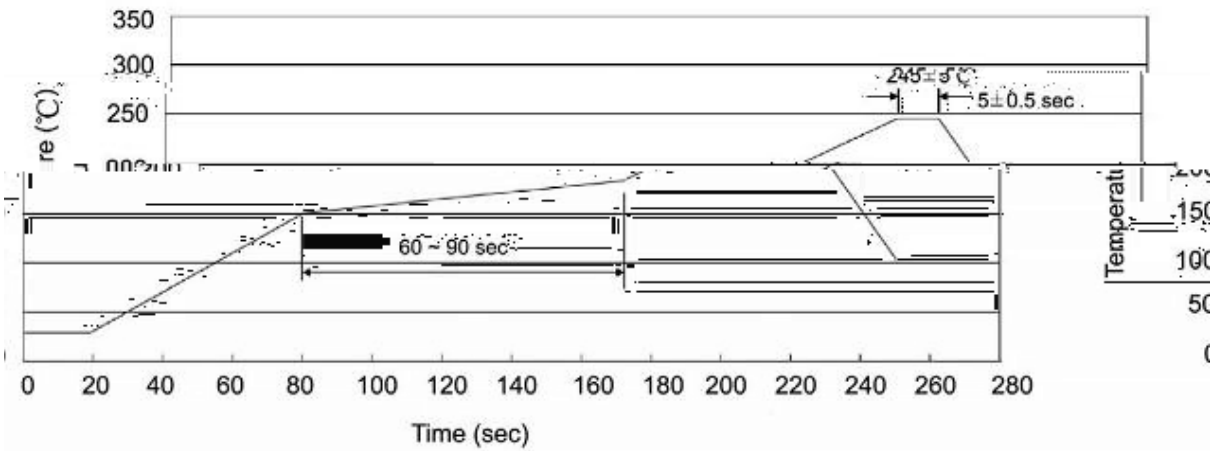


Note:

Product Type Code.

****:

Lot No. Code, code change with Lot No.



- Note:
- 1

150 180

60 90sec;

2

245 5

5 0.5sec;
- 3
- 2 10 /sec.

1.Preheating:150~180 , Time:60~90sec.

2.Peak Temp.:245 5 , Duration:5 0.5sec.

3. Cooling Speed: 2~10 /sec.

260 5

10 1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
TO-277	5,000	3	15,000	6	90,000	13" ×12	360×360×50	380×335×366