

Rev.G Oct.-2018

TO-277

TO-277 Plastic package Schottky diode .

$$V_F(\text{typ})=0.21\text{V}$$

High Forward Surge Capability, Ultra Low Forward Voltage Drop $V_F(\text{typ})=0.21\text{V}$, Excellent High Temperature Stability. HF Product.

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

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage Peak Reverse Voltage	V_{RRM} V_{RWM} V_{RM}	60	V
RMS Reverse voltage	$V_{R(RMS)}$	42	V
Average Rectified Output Current	I_O	10	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	250	A
Repetitive peak avalanche power	P_{ARM}	30000	W
Junction Temperature Range	$T_{J\ MAX}$	150	
Storage Temperature Range	T_{stg}	-55 150	
Typical Thermal Resistance	$R_{\theta JA}$ Note 1	73	/W

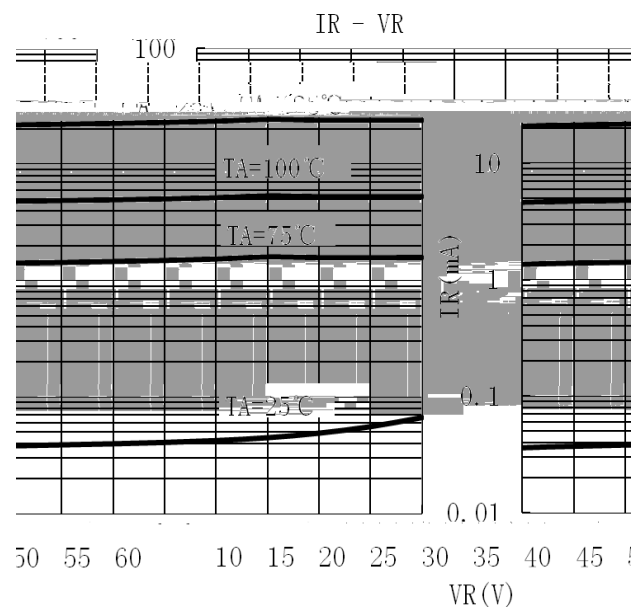
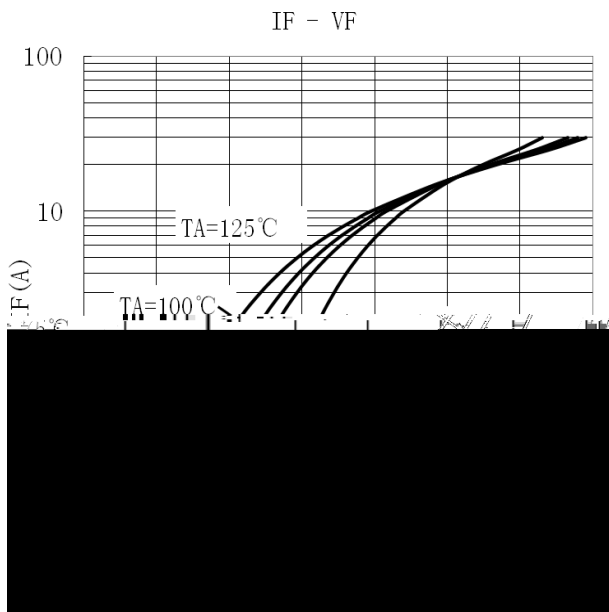
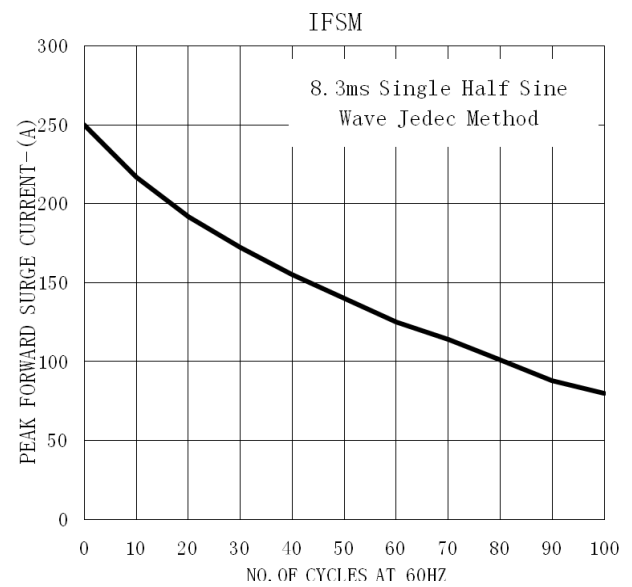
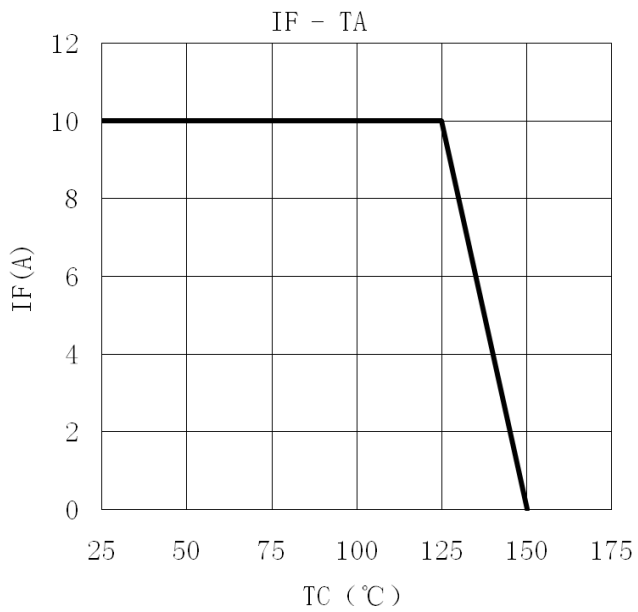
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_R	$I_R=0.3mA$	60			V
Forward Voltage	V_F	$I_F=2A$ $T_J=25$		0.34	0.42	V
		$I_F=2A$ $T_J=125$		0.21		V
		$I_F=10A$ $T_J=25$		0.44	0.50	V
		$I_F=10A$ $T_J=125$		0.42		V
Instantaneous Reverse Current	I_R Note 2	$V_R=60V$ $T_J=25$		80	120	μA
		$V_R=60V$ $T_J=100$		6	12	mA
		$V_R=60V$ $T_J=125$		30	50	mA

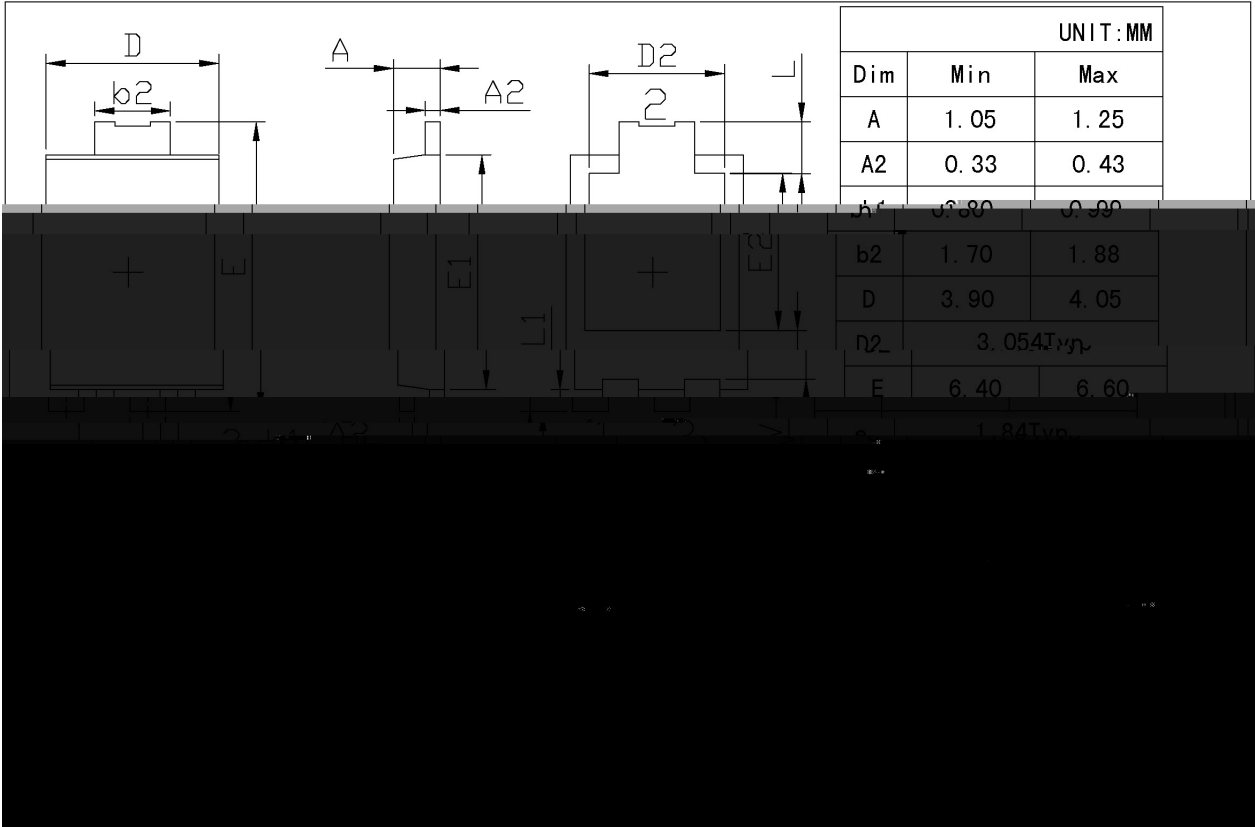
Notes

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

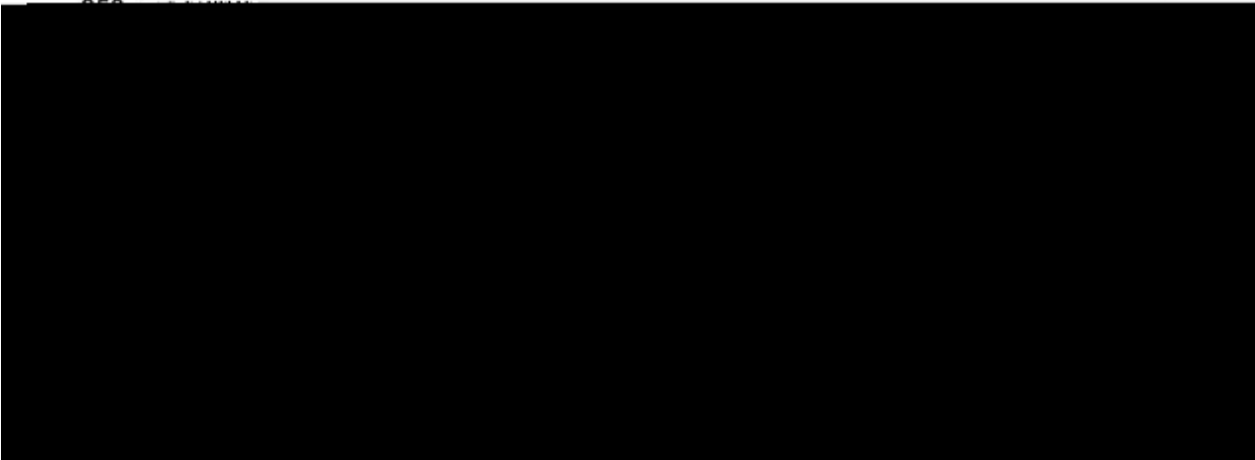
layout per.

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









- 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	Units					Dimension (unit mm ³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
TO-277	5,000	3	15,000	6	90,000	13 ×12	360×360×50	380×335×366