

/ Absolute Maximum Ratings(Ta=25)

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	5	A
Non-Repetitive Peak Forward Surge Current	I_{FSM}	120	A
Junction Temperature Range	$T_{J\ MAX}$	125	°C
Storage Temperature Range	T_{stg}	-55 125	°C
Typical Thermal Resistance	$R_{\theta JA}$ Note 1	85	°C/W

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_{BR}	$I_R=1mA$	60			V
Forward voltage	V_F	$I_F=2A$ $T_J=25^{\circ}C$		0.39	0.45	V
		$I_F=2A$ $T_J=125^{\circ}C$		0.30		V
		$I_F=5A$ $T_J=25^{\circ}C$		0.47	0.55	V
		$I_F=5A$ $T_J=125^{\circ}C$		0.43		V
Instantaneous Reverse Current	I_R Note 1	$V_R=60V$ $T_J=25^{\circ}C$		100	500	uA
		$V_R=60V$ $T_J=100^{\circ}C$		10		mA
		$V_R=60V$ $T_J=125^{\circ}C$		40		mA

/Notes

1. FR-4 PCB 2

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

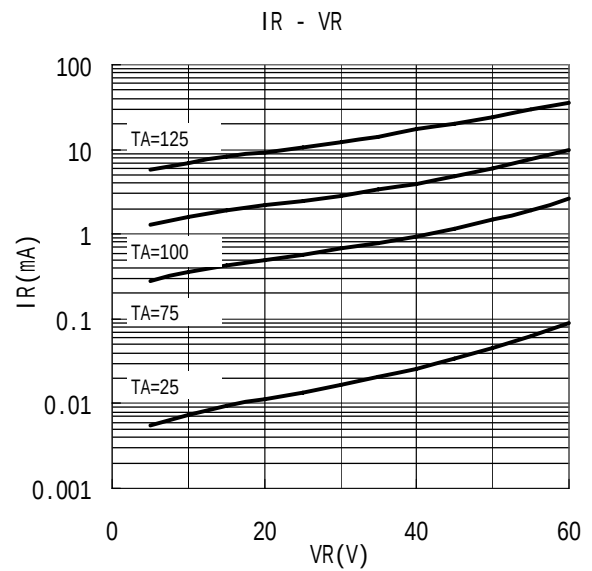
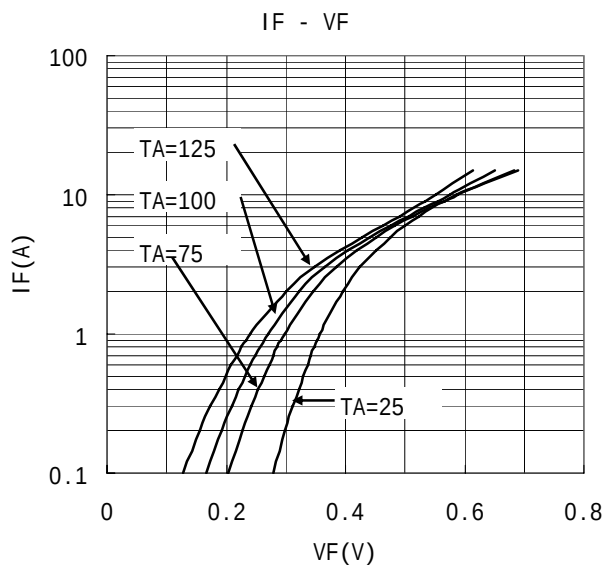
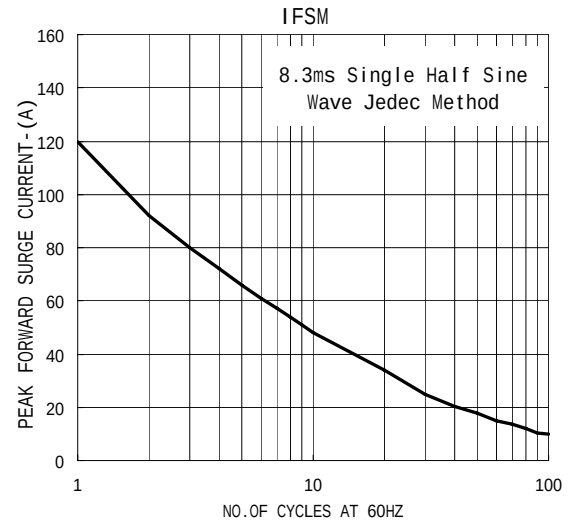
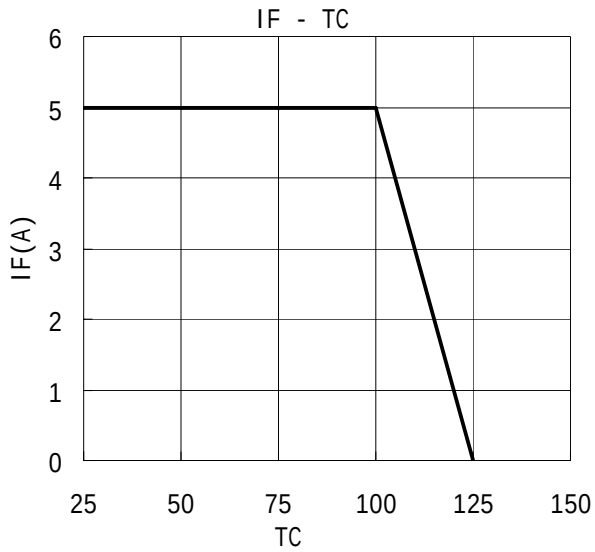
layout per.

2.

/Short duration pulse test used to minimize self-heating

effect.

/ Electrical Characteristic Curve



/ Package Dimensions



() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | | 5±0.5sec; | | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5℃ Time:10±1 sec

/ Packaging SPEC.

/ 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

/ Notices