

TO-277B Schottky Barrier Rectifier Diode 肖特基势垒整流二极管

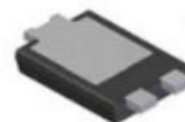
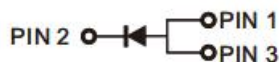
■Features 特点

Low forward voltage drop 低正向压降

High current capability 高电流能力

Surface mount device 表面贴装器件

Case 封装:TO-277B



■Maximum Rating 最大额定值

($T_A=25^{\circ}\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	SS 1020	SS 1040	SS 1060	SS 1080	SS 10100	SS 10150	SS 10200	Unit 单位
Peak Reverse Voltage 反向峰值电压	V_{RRM}	20	40	60	80	100	150	200	V
DC Reverse Voltage 直流反向电压	V_R	20	40	60	80	100	150	200	V
RMS Reverse Voltage 反向电压均方根值	$V_{R(RMS)}$	14	28	42	56	70	105	140	V
Forward Rectified Current 正向整流电流	I_F	10							A
Peak Surge Current 峰值浪涌电流	I_{FSM}	175							A
Thermal Resistance J-A 结到环境热阻	$R_{\theta JA}$	60							$^{\circ}\text{C/W}$
Junction Temperature 结温	T_J	150							$^{\circ}\text{C}$
Storage Temperature 储藏温度	T_{stg}	-55to+150							$^{\circ}\text{C}$

■Electrical Characteristics 电特性

($T_A=25^{\circ}\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	SS1020-SS1040	SS1060	SS1080-SS10100	SS10150-SS10200	Unit 单位	Condition 条件
Forward Voltage 正向电压	V_F	0.55	0.70	0.85	0.95	V	$I_F=10\text{A}$
Reverse Current 反向电流	$I_R(25^{\circ}\text{C})$ (125°C)	0.5 50		0.05 10		mA	$V_R=V_{RRM}$
Diode Capacitance 二极管电容	C_D	400				pF	$V_R=4\text{V}, f=1\text{MHz}$

■ Typical Characteristic Curve 典型特性曲线

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

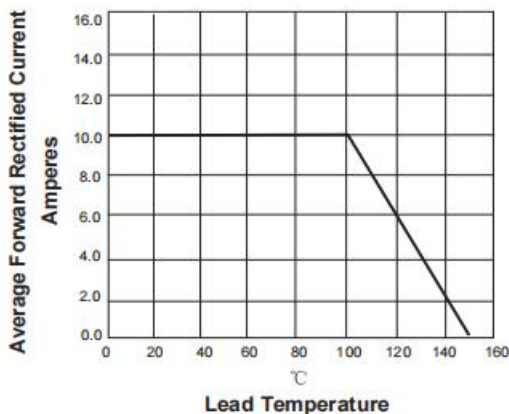


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

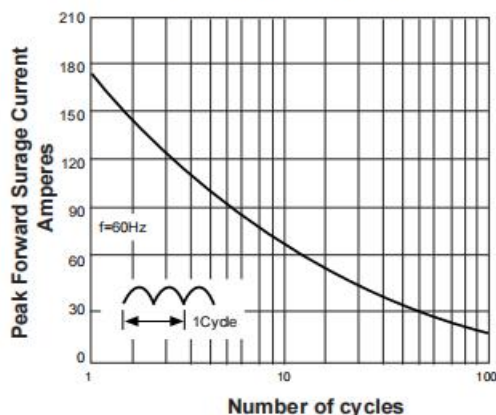


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

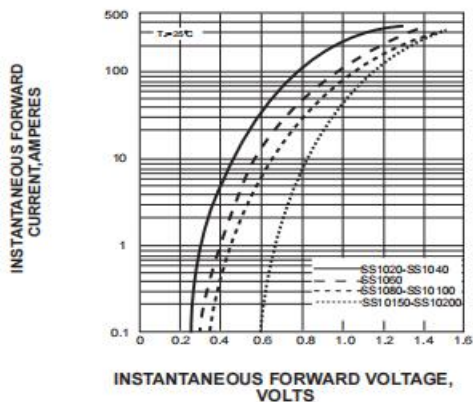
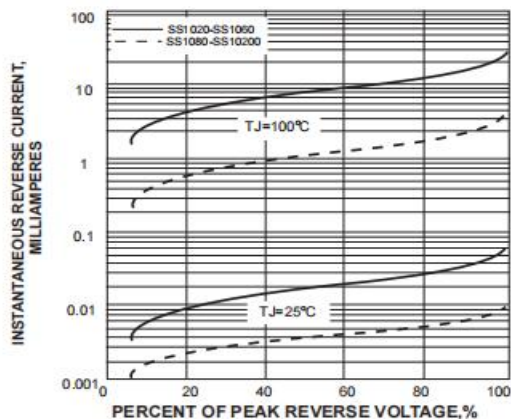
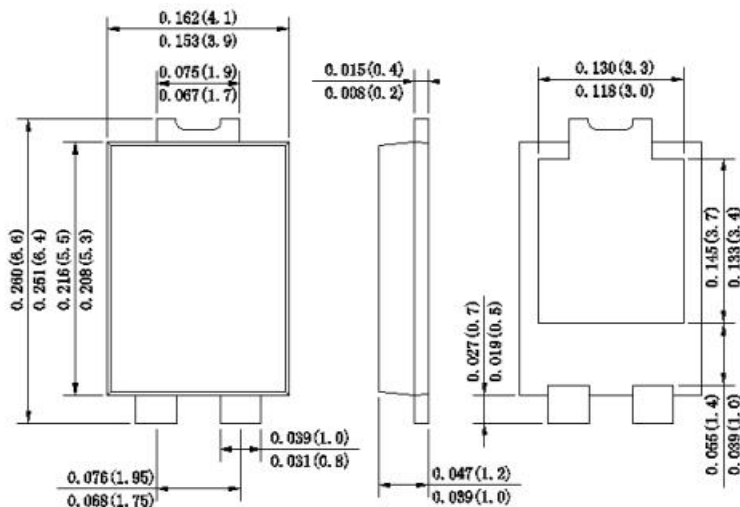


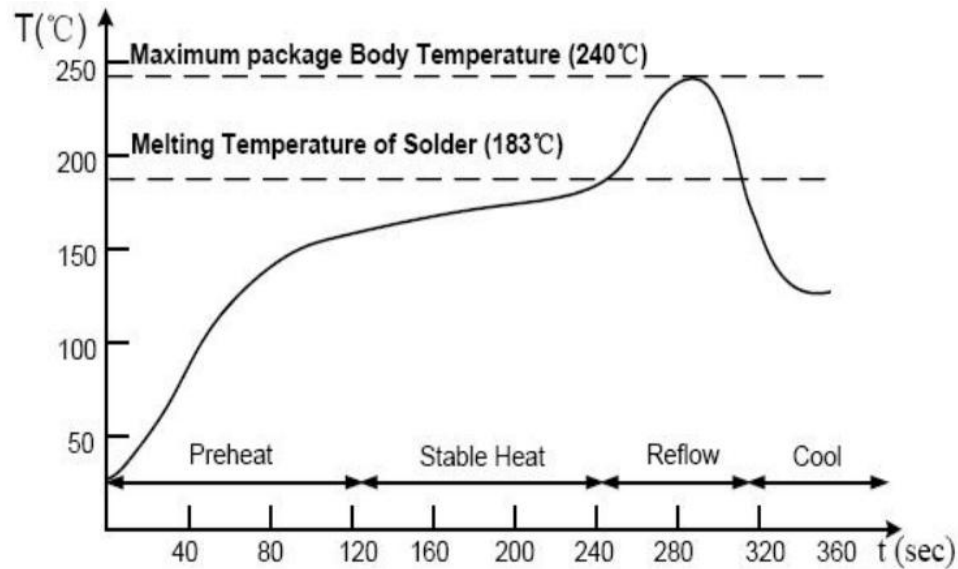
FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



■ Dimension 外形封装尺寸 Dimensions in inches and (millimeters)

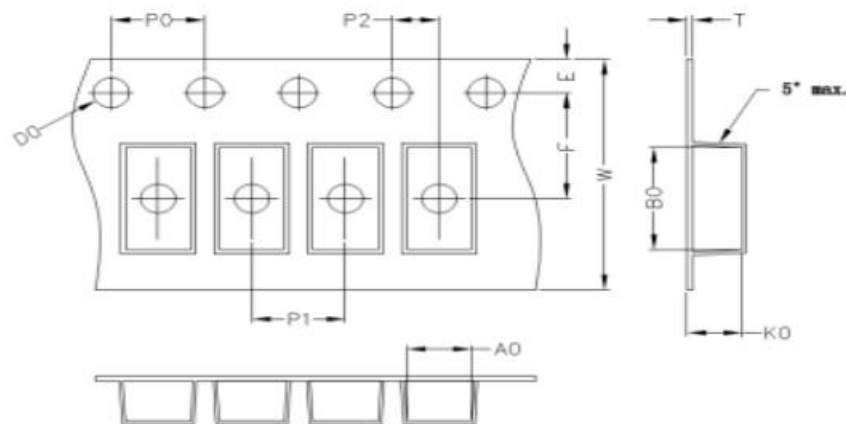


Suggested Soldering Temperature Profile 焊接



Package Information 包装

Carrier Dimension(mm)



A0	B0	K0	D0	E	F
4.40	6.90	1.30	1.55	1.75	7.50
P0	P1	P2	T	W	Tolerance
4.0	8.0	2.0	0.25	12	0.1

Package Specifications

Package	Reel Size	Reel DIA. (mm)	Q'TY/Reel (Kpcs)	Box Size (mm)	QTY/Box (Kpcs)	Carton Size (mm)	Q'TY/Carton (Kpcs)
TO-277B	13'	330	5.0	340	10.0	360*360*360	80