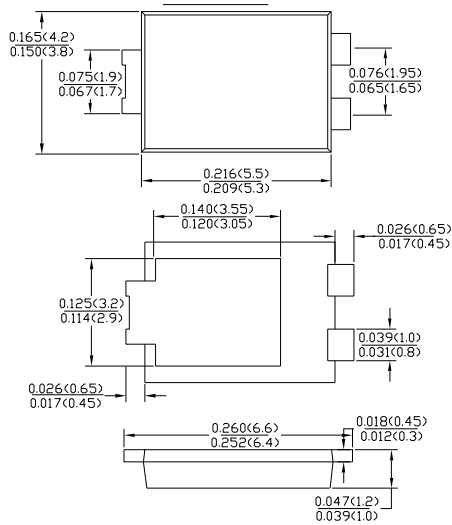




# SL1045U

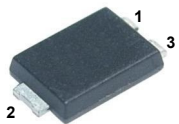
## 10.0A SCHOTTKY BARRIER RECTIFIER

### T0-277

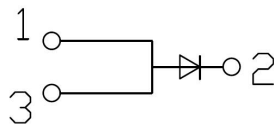


Dimensions inches and (millimeters)

#### EPinning



#### Equivalent Circuit



### Features

- Schottky Barrier Chip
- High Thermal Reliability
- Patented Super Barrier Rectifier Technology
- High Forward Surge Capability
- Ultra Low Forward Voltage Drop  $V_F(\text{typ})=0.2\text{V}$
- Excellent High Temperature Stability

### Mechanical Data

- Case: T0-277 Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.093 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS/Lead Free Version

### Applications

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

### Absolute Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

Characteristic	Symbol	SL1045U		Unit	
Peak Repetitive Reverse Voltage	$V_{RRM}$	45		V	
Working Peak Reverse Voltage	$V_{RWM}$				
Peak Reverse Voltage	$V_{RM}$				
RMS Reverse Voltage	$V_{R(RMS)}$	31.5		V	
Average Rectified Output Current	$I_O$	10		A	
Non-Repetitive Peak Forward Surge	$I_{FSM}$	250		A	
Forward Voltage	$V_F$	Typ	Max	V	
		@ $I_F = 2\text{A}, T_j = 25^\circ\text{C}$	0.33		0.38
		@ $I_F = 2\text{A}, T_j = 125^\circ\text{C}$	0.20		
		@ $I_F = 10\text{A}, T_j = 25^\circ\text{C}$	0.42		0.46
		@ $I_F = 10\text{A}, T_j = 125^\circ\text{C}$	0.35		
Instantaneous Reverse Current	$I_R$ (Note 2)	@ $V_R = 45\text{V}, T_j = 25^\circ\text{C}$	0.06	0.12	mA
		@ $V_R = 45\text{V}, T_j = 100^\circ\text{C}$	0.20	12	
		@ $V_R = 45\text{V}, T_j = 125^\circ\text{C}$	0.42	50	
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	73		$^\circ\text{C}/\text{W}$	
Operating Temperature Range	$T_j$	-55 to +150		$^\circ\text{C}$	
Storage Temperature Range	$T_{STG}$	-55 to +150		$^\circ\text{C}$	

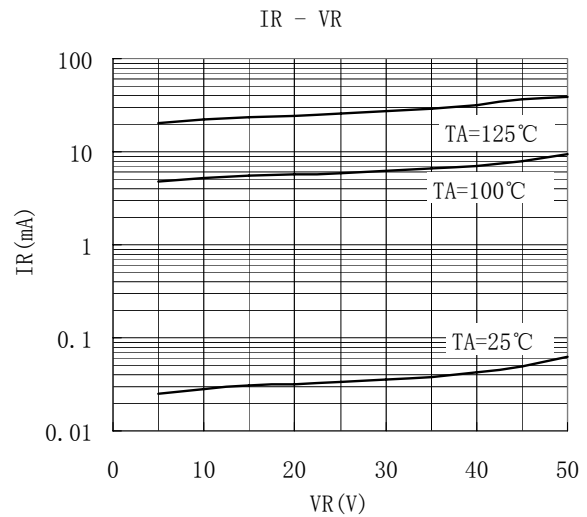
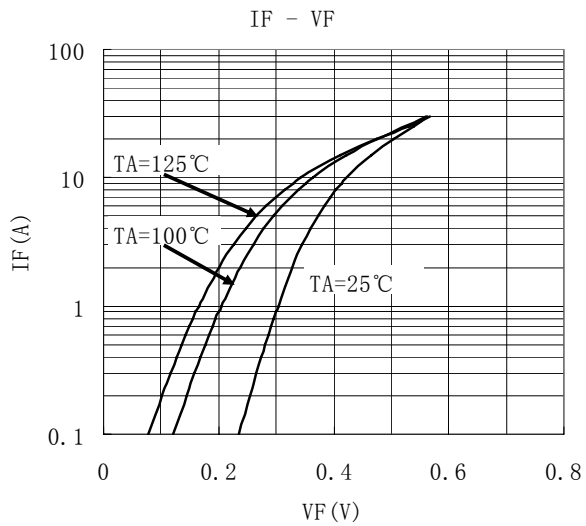
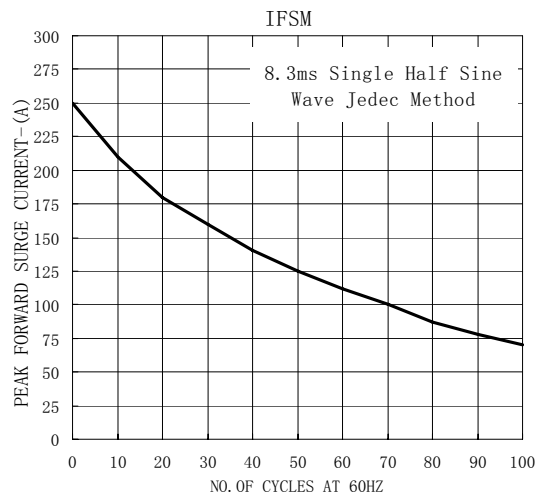
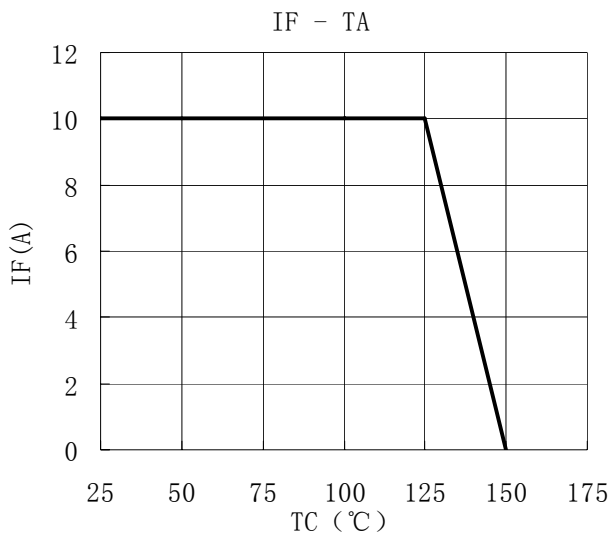
Note: 1. FR-4 PCB, 2oz. Copper, minimum recommended pad layout per.  
2. Short duration pulse test used to minimize self-heating effect.



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# 10A SCHOTTKYBARRIER RECTIFIER SL1045U

## Electrical Characteristic Curve



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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