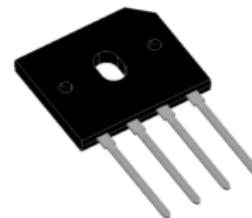


15A, 600V Low Forward Voltage Schottky Bridge Rectifier

FEATURES

- Planar MOS Schottky barrier diode
- Low forward voltage drop
- Ideal for printed circuit board
- High temperature soldering guaranteed: 270°C/10 seconds
- RoHS compliant, halogen free

GBU

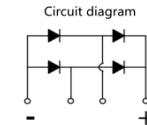


**RoHS
COMPLIANT**

**HALOGEN
FREE**

MECHANICAL DATA

- Case: GBU
- Case material: molding compound meets UL 94V-0 flammability rating



TYPICAL APPLICATION

General purpose use in rectification for SMPS, lighting, adapter, charger, home appliance, office equipment and telecommunication.

MAXIMUM RATINGS

$T_A=25^\circ\text{C}$ unless otherwise noted

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Average Forward Rectified Current	$I_{F(AV)}$	15	A
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I_{FSM}	300	A
Operating Junction Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

$T_A=25^\circ\text{C}$ unless otherwise noted

Parameter	Test Conditions	Symbol	Value		Unit
			Typ.	Max.	
Forward Voltage@ $I_F=1\text{A}$	$T_A=25^\circ\text{C}$	V_F	0.7	0.75	V
	$T_A=125^\circ\text{C}$		0.6	0.65	
Forward Voltage@ $I_F=7.5\text{A}$	$T_A=25^\circ\text{C}$		0.84	0.88	
	$T_A=125^\circ\text{C}$		0.71	0.75	
Forward Voltage@ $I_F=15\text{A}$	$T_A=25^\circ\text{C}$		0.9	0.95	
	$T_A=125^\circ\text{C}$		0.75	0.8	
Reverse Current @ V_{RRM}	$T_A=25^\circ\text{C}$	I_R	0.05	5	μA
	$T_A=125^\circ\text{C}$		20	500	
Reverse Recovery Time	$I_F=0.5\text{A}, I_R=1.0\text{A},$ $I_{rr}=0.25\text{ A}$	T_{RR}	165	-	ns
Typical Thermal Resistance		$R_{\theta JA}$	25		°C/W

15A, 600V Low Forward Voltage Schottky Bridge Rectifier

RATINGS AND CHARACTERISTIC CURVES

$T_A=25^\circ\text{C}$ unless otherwise noted

FIG.1: Forward Output Current Derating Curve

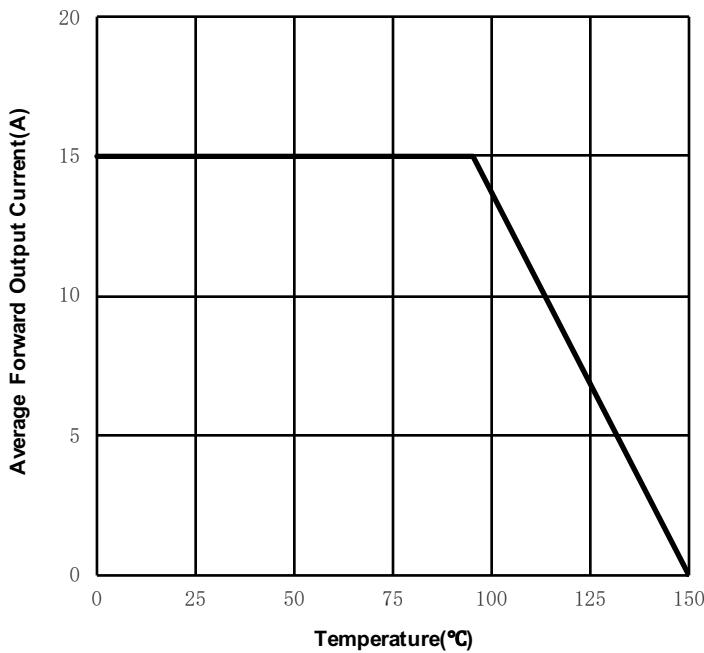


FIG.2: Maximum Non-Repetitive Peak Forward Surge Current

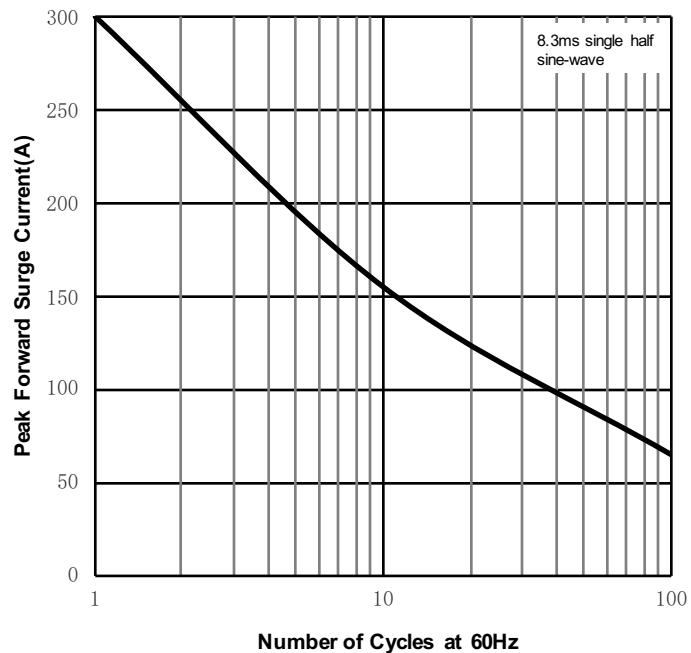


FIG.3: Typical Forward Characteristics

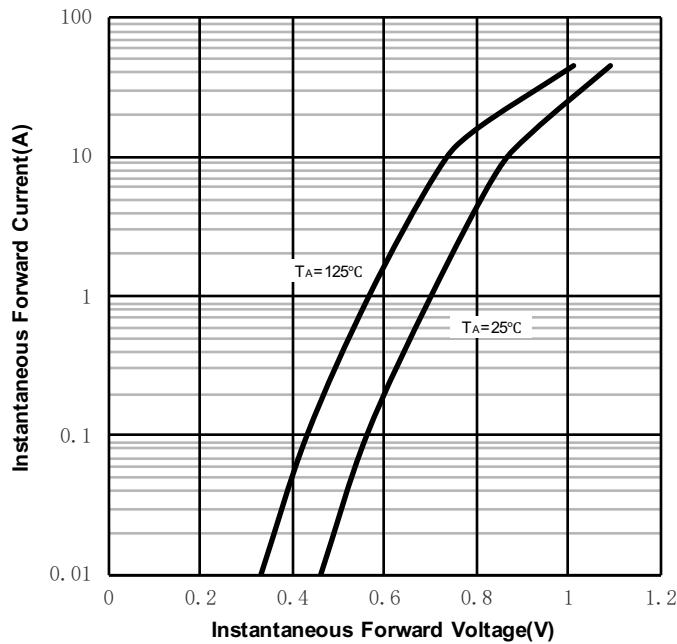
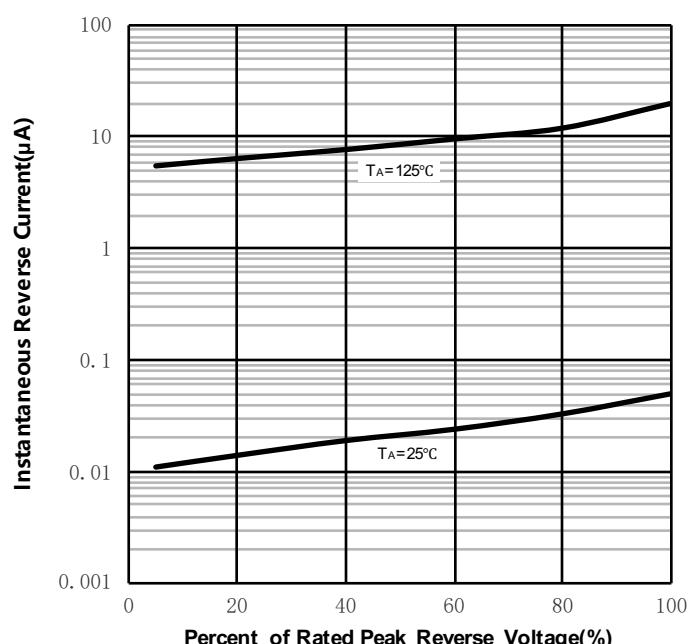
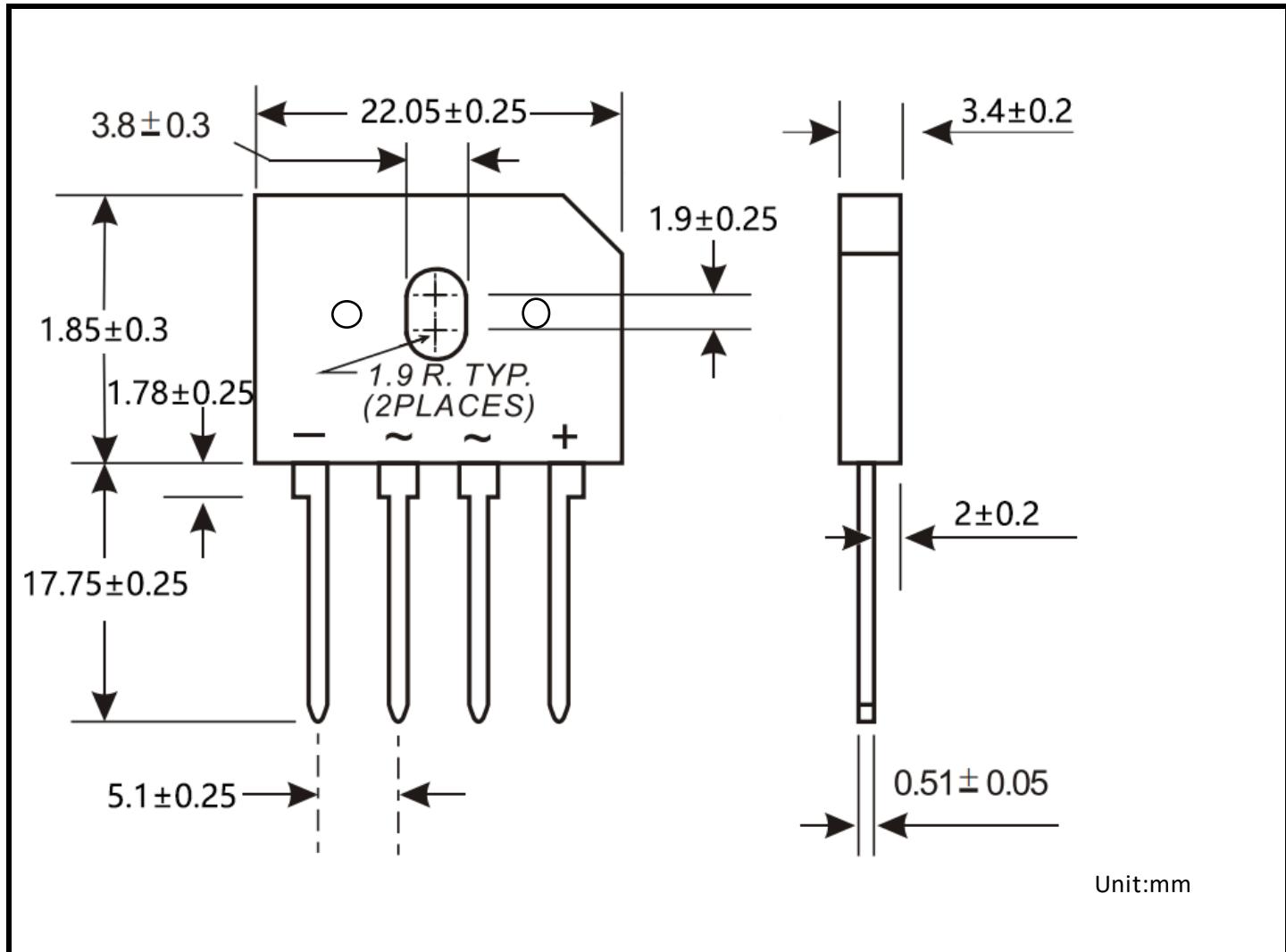


FIG.4: Typical Reverse Characteristics



15A, 600V Low Forward Voltage Schottky Bridge Rectifier

PACKAGE OUTLINE DIMENSIONS



PACKING INFORMATION

Package	Inner Box(PCS)	Carton(PCS)
GBU	250	2,000