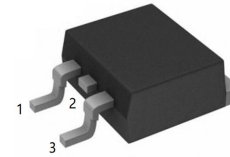


20A, 100V Low Forward Voltage Schottky Rectifier

FEATURES

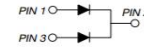
- Trench MOS Schottky barrier diode
- Low forward voltage drop
- Low power losses, High efficiency
- Moisture sensitivity: level 1, per J-STD-020
- High temperature soldering guaranteed: 260°C/10 seconds
- RoHS compliant

TO-252



RoHS
COMPLIANT

HALOGEN
FREE
AVAILABLE



MECHANICAL DATA

- Case: TO-252
- Case material: molding compound meets UL 94V-0 flammability rating
- Polarity: as marked on case body

TYPICAL APPLICATION

General purpose use in AC to DC bridge full wave 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}	100	V
Average Forward Rectified Current	$I_{F(AV)}$	20	A
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I_{FSM}	150	A
Operating Junction Temperature Range	T_J	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

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

Parameter	Test Conditions	Symbol	Value		Unit
			Typ.	Max.	
Forward Voltage@ $I_F=10\text{A}$	$T_A=25^\circ\text{C}$	V_F	0.66	0.7	V
	$T_A=125^\circ\text{C}$		0.6	0.63	V
Reverse Current @ V_{RRM}	$T_A=25^\circ\text{C}$	I_R	30	70	μA
	$T_A=125^\circ\text{C}$		20	50	mA
Typical Thermal Resistance		$R_{\theta JC}$	4		$^\circ\text{C/W}$

20A, 100V Low Forward Voltage Schottky Rectifier

RATINGS AND CHARACTERISTIC CURVES

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

FIG.1: Forward Output Current Derating Curve

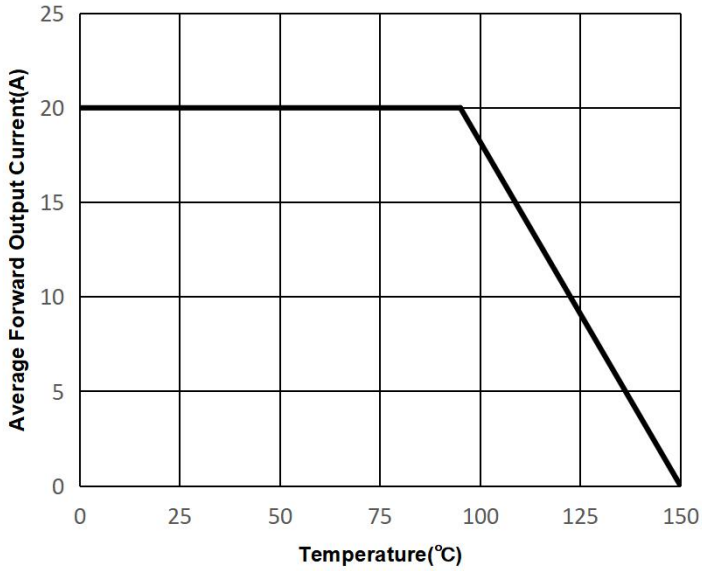


FIG.2: Maximum Non-Repetitive Peak Forward Surge Current

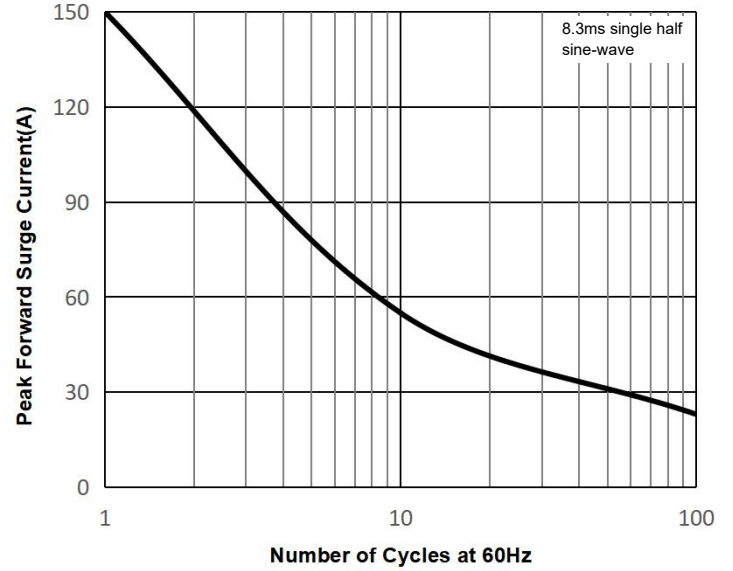


FIG.3: Typical Forward Characteristics

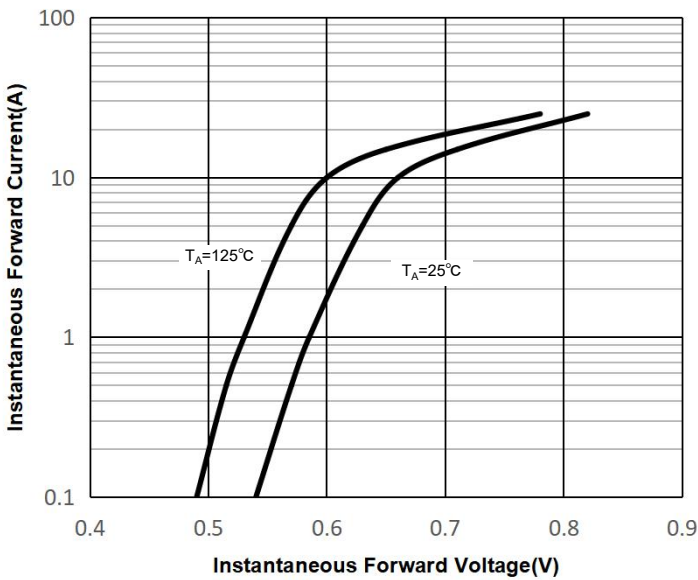
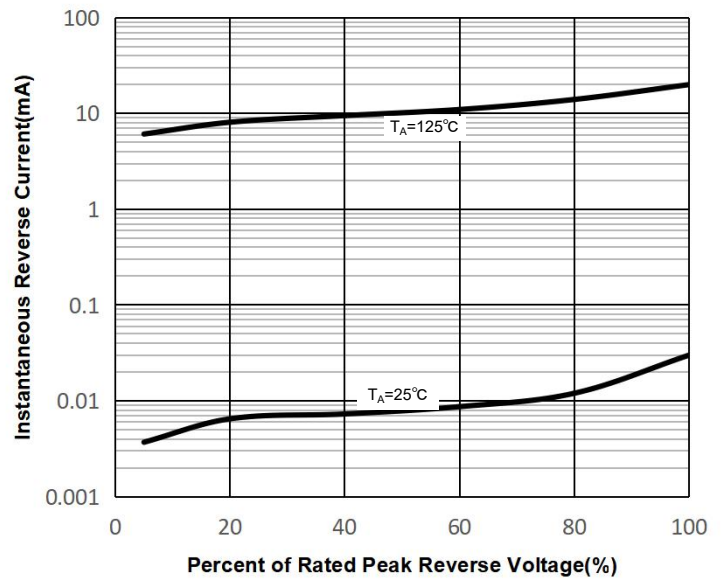
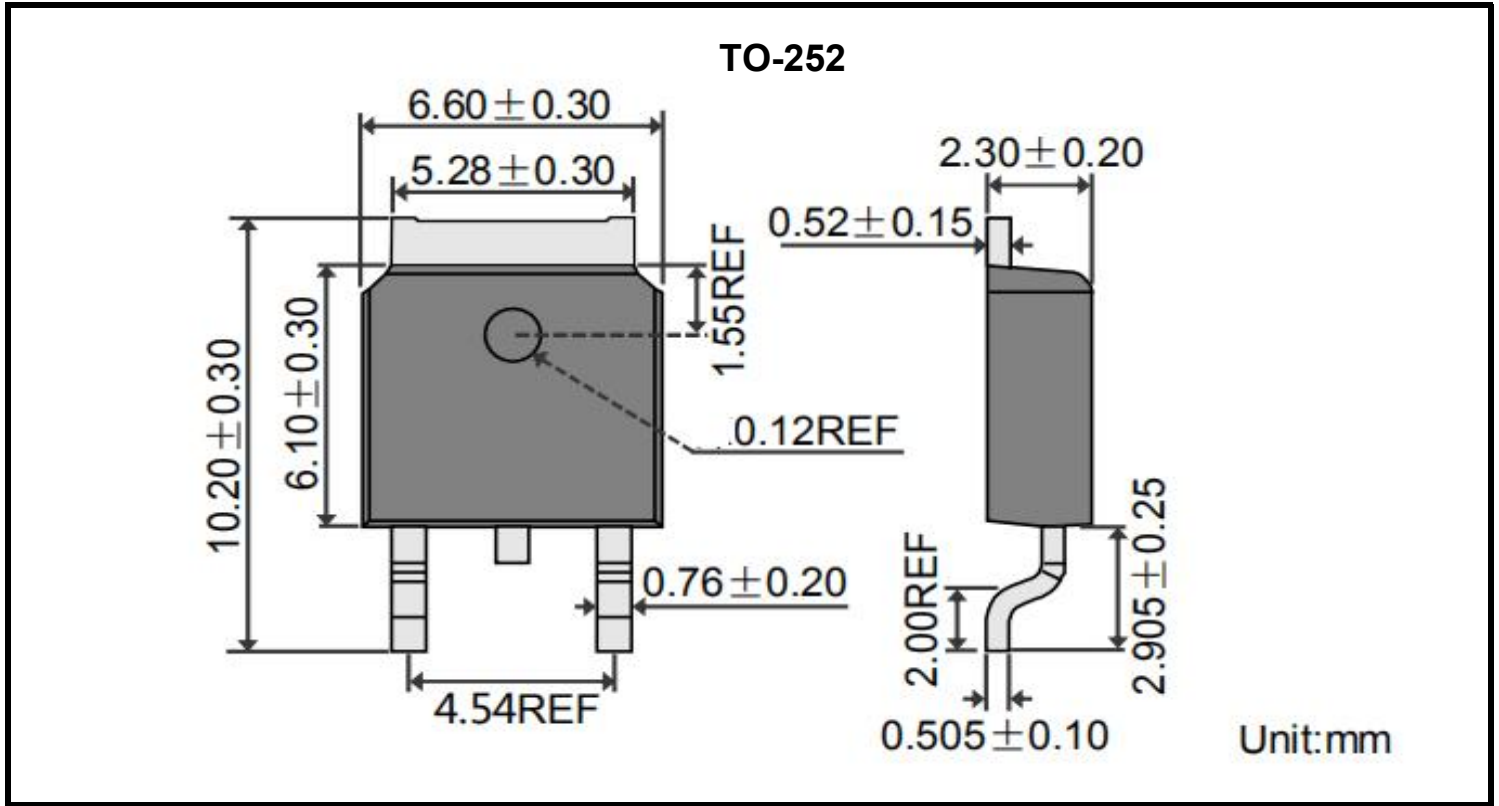


FIG.4: Typical Reverse Characteristics



20A, 100V Low Forward Voltage Schottky Rectifier
PACKAGE OUTLINE DIMENSIONS

PACKING INFORMATION

Package	Tube(PCS)	Inner Box(PCS)	Carton(PCS)
TO-252	80	4,000	20,000