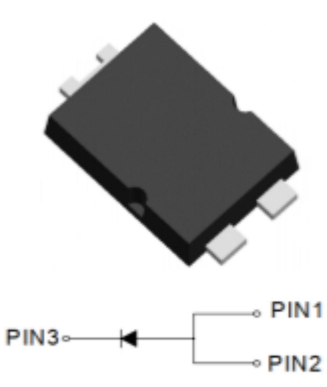
WAYON

WSR10010U

SCHOTTKY BARRIER RECTIFIER

Features

- 10A Schottky barrier diode
- Schottky barrier rectifier
- Excellent high temperature stability
- Low forward voltage
- High forward surge capability
- High current capability



Mechanical Data

- Case: TO-277 molded plastic package

Maximum Ratings (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Repetitive Peak Reverse Voltage	V_{RRM}	V	100
Average Rectified Output Current @60Hz -sine wave, R- load, Tc=55℃	I_O	A	10
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave,1 cycle, Ta=25℃	I_{FSM}	A	250
Storage Temperature	Tstg	℃	-55 ~+150
Junction Temperature	Tj	℃	-55 ~+150

Electrical Characteristics(Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	V_F	V	I_F=10.0A,T_j=25℃	-	0.59	0.67
			I_F=3.0A,T_j=25℃	-	0.47	0.55
Reverse Breakdown Voltage	V_{BR}	V	I_R=0.5mA	100	-	-
Leakage Current	I_R	mA	V_R=100V， T_j=25℃	-	-	0.1
			V_R=100V， T_j=100℃	-	-	10

Thermal Characteristics (Ta=25℃ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	VALUE
Thermal Resistance	Junction to Case	$R_{\theta J-C}$	℃/W	8

Typical Characteristics

FIG.1: Io-Tc Curve

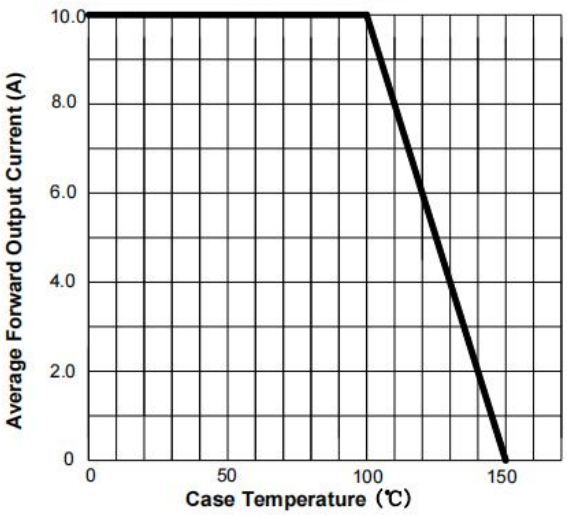


FIG.2: Forward Surge Current Capability

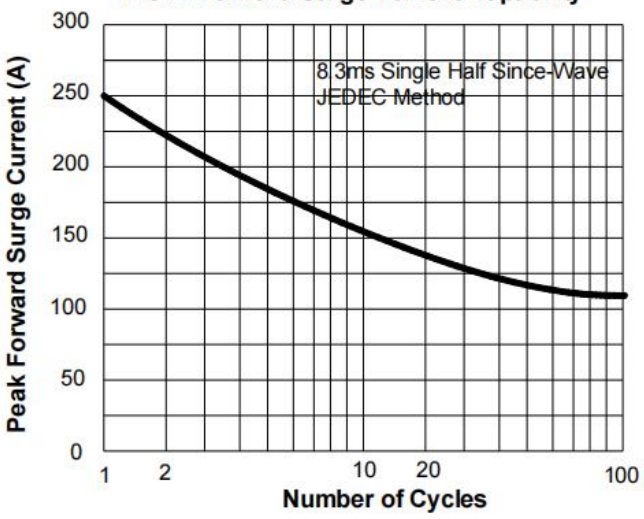


FIG.3: Forward Voltage

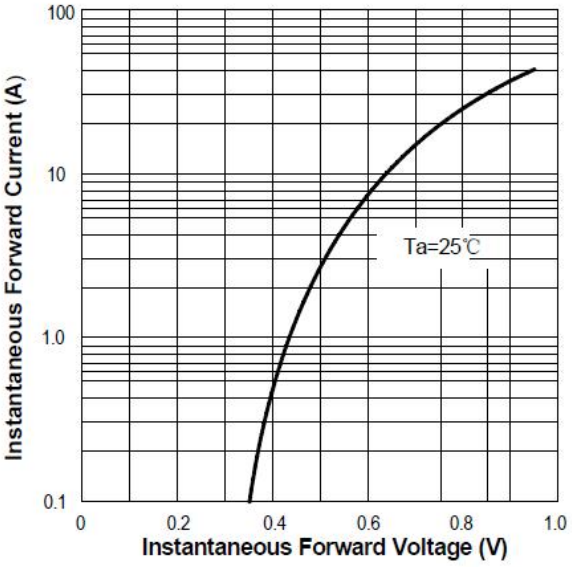
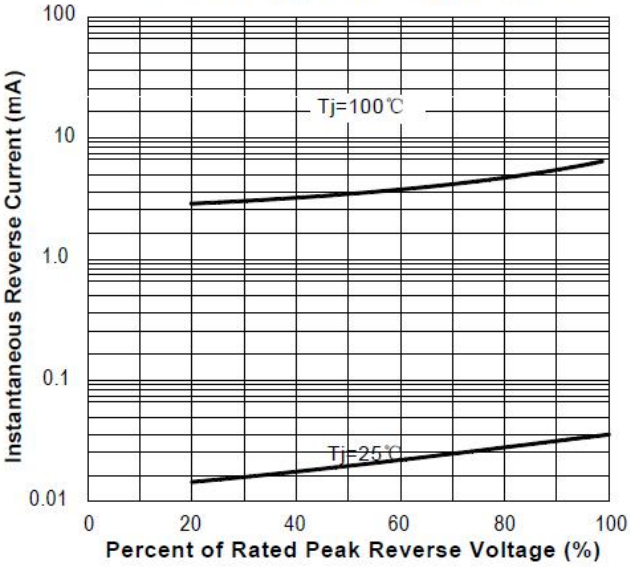
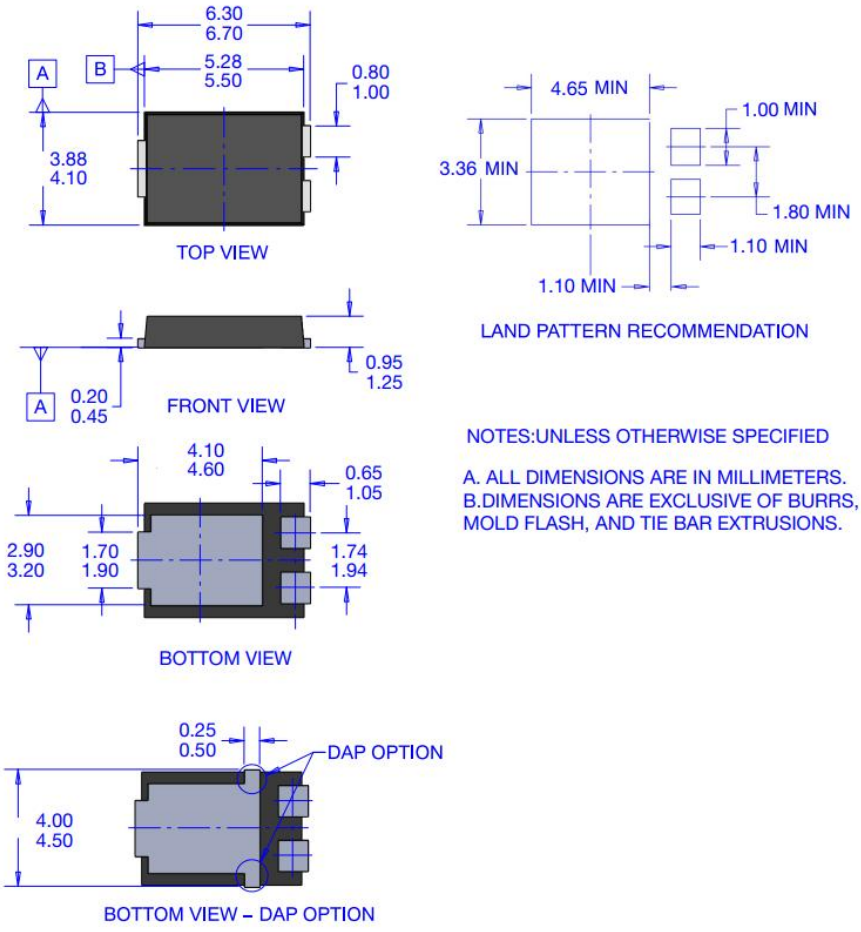


FIG.4: Typical Reverse Characteristics



Outline Dimensions



Marking Code

Part Number	WSR10010U
Marking Code	SS10U100

Package Information

Tape & Reel: 5000 pcs.

Contact Information

No.1001, Shiwan(7) Road, Pudong District, Shanghai, P.R.China.201207
Tel: 021-68969993 Fax: 86-21-50757680 Email: market@way-on.com
WAYON website: **http://www.way-on.com**
For additional information, please contact your local Sales Representative.