

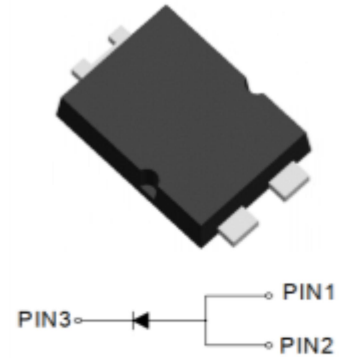


WSR10015U

SCHOTTKY BARRIER RECTIFIER

Features

- 15A 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°C 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°C	I_o	A	15
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave, 1 cycle, Ta=25°C	I_{FSM}	A	275
Storage Temperature	Tstg	°C	-55 ~+150
Junction Temperature	Tj	°C	-55 ~+150

Electrical Characteristics(Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=10.0A, Ta=25^{\circ}C$	-	0.57	-
			$I_{FM}=15.0A, Ta=25^{\circ}C$	-	0.62	0.75
			$I_{FM}=10.0A, Ta=125^{\circ}C$	-	0.55	-
			$I_{FM}=15.0A, Ta=125^{\circ}C$	-	0.60	0.68
Reverse Breakdown Voltage	V_{BR}	V	$I_R=0.5mA$	100	-	-
Leakage Current	I_R	mA	$V_R=100V, Ta=25^{\circ}C$	-	-	0.5
			$V_R=100V, Ta=125^{\circ}C$	-	-	50

Thermal Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

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

Typical Characteristics

FIG.1: I_o - T_c Curve

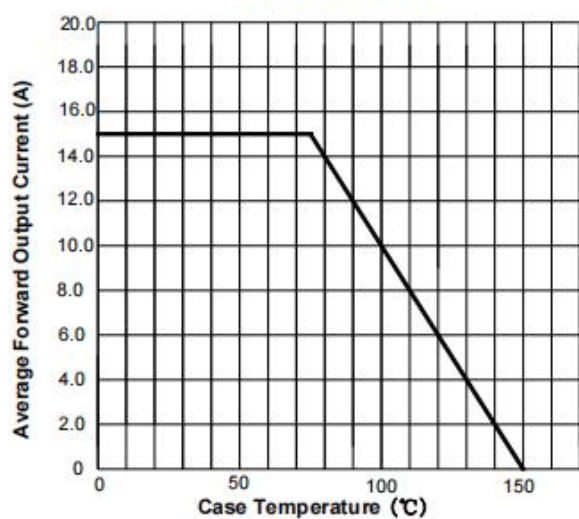


FIG.2: Forward Surge Current Capability

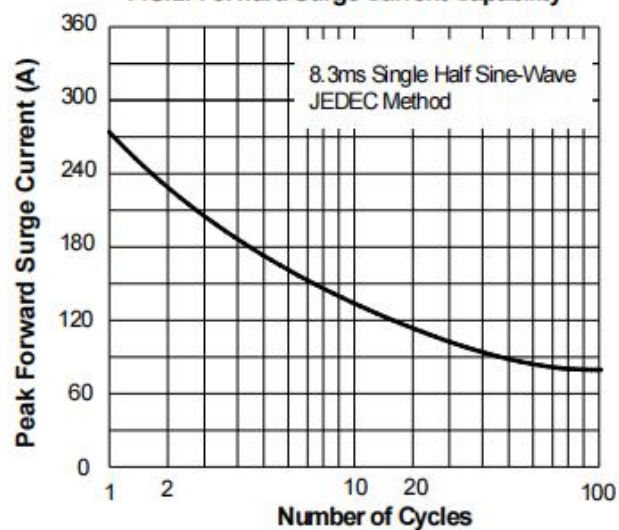


FIG.3: Forward Voltage

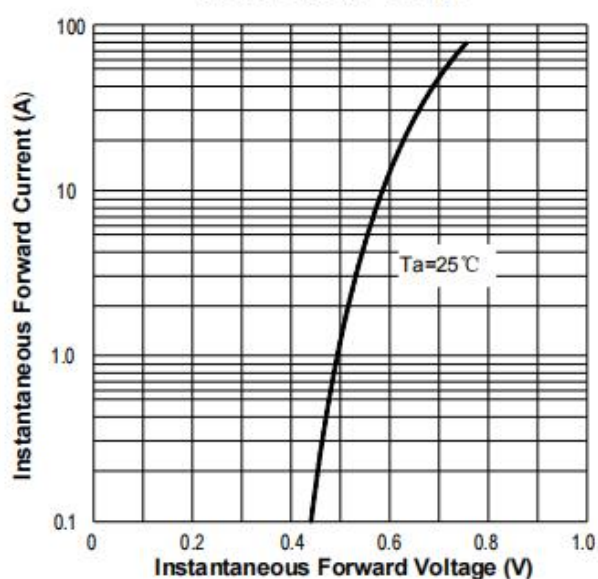
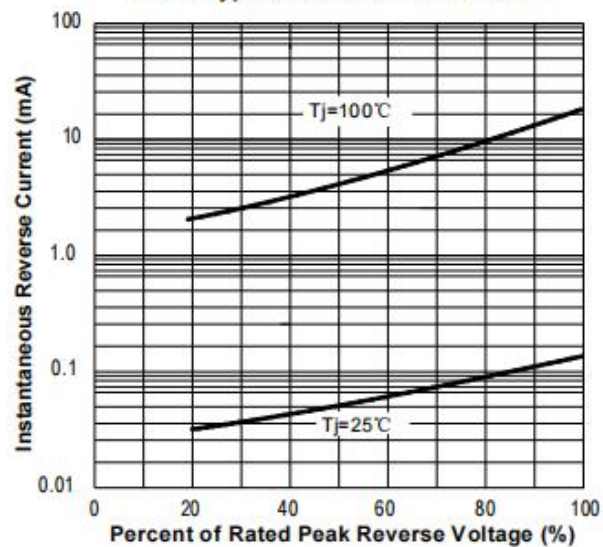
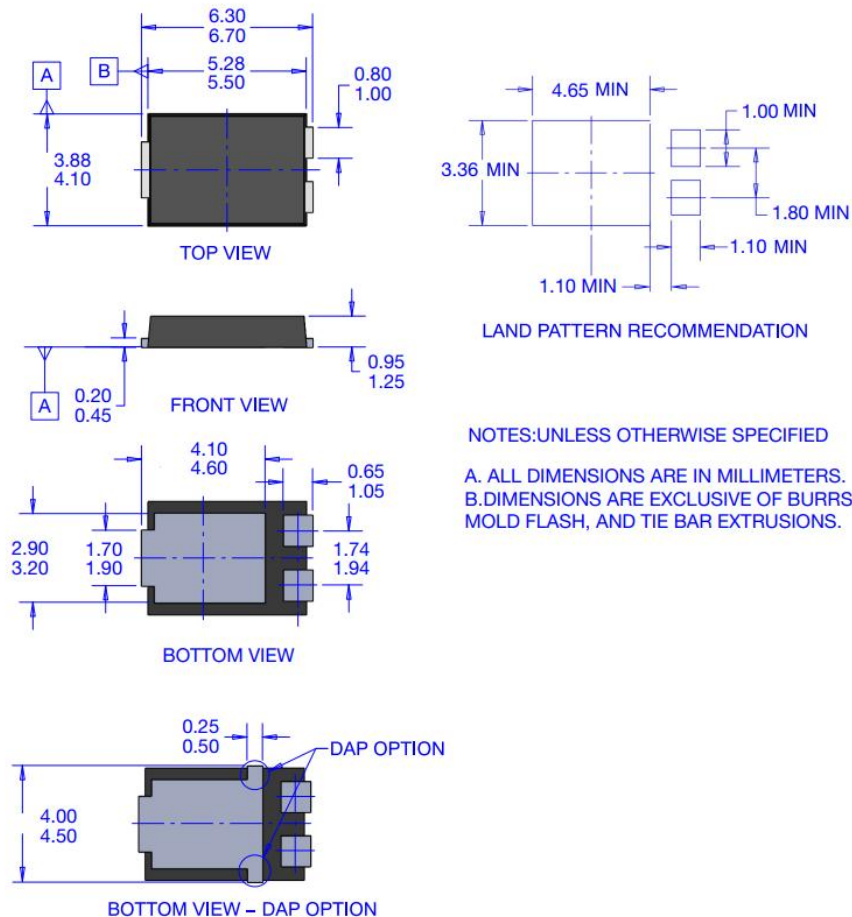


FIG.4: Typical Reverse Characteristics



Outline Dimensions



Marking Code

Part Number	WSR10015U
Marking Code	SS15U100

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.

WAYON® is registered trademarks of Wayon Corporation.

Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.