



20A Low V_F SCHOTTKY Barrier Rectifier
Voltage - 80 Volts Current - 20 Amperes



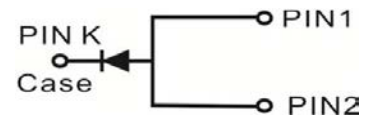
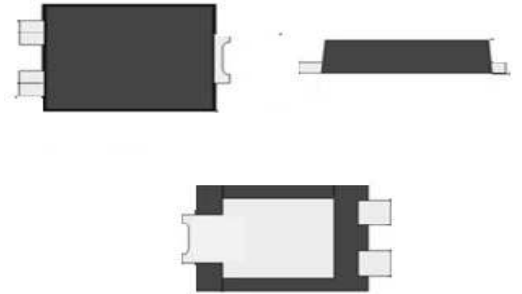
Features

- Schottky Barrier Chip
- High Thermal Reliability
- Patented Super Barrier Rectifier Technology
- High Forward Surge Capability
- Ultra Fow Power Loss,High Efficiency
- Excellent High Temperature Stability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: TO-277, molded plastic
- Terminals:Plated Leads Solderable per MIL-STD-202,Method 208
- Polarity:Cathode Band
- Mounting Position:Any
- Marking:Type Number
- Lead Free:For RoHS/Lead Free Version

TO-277



Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless or otherwise specified.)
(Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

Parameters	Symbol	SBRL20U80	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	80	V
Maximum RMS Voltage	V_{RMS}	56	V
Maximum DC Blocking Voltage	V_{DC}	80	V
Maximum Average Froward Rectified Current (Note 1)	$I_{F(AV)}$	20	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) (Note 2)	I_{FSM}	275	A
Maximum Instantaneous Forward Voltage at $I_F=20A$	V_F	0.75	V
Maximum DC Reverse Current $T_a=25^\circ C$ at Rated DC Blocking Voltage $T_a=100^\circ C$	I_R	0.3 15	mA
Maximum Thermal Resistance	$R_{\theta JA}$ $R_{\theta JL}$	80 15	$^\circ C/W$
Operating Temperature Range	T_J	-55 to +150	$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ C$

Notes: 1. Valid provided that are kept at ambient temperature at a distance of 9.5mm from the case.

2. FR-4, 2oz, Copper minimum recommend pad layout. 18.8mm x 14.4mm. Anode pad dimensions 5.6mm x14.4mm.

DEVICE CHARACTERISTICS

SBRL20U80

Fig.1 - Forward Current Derating Curve

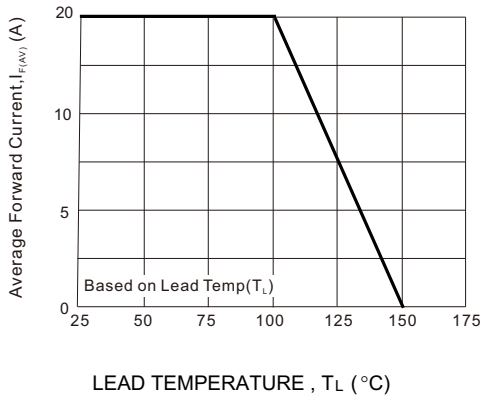


Fig2 : Instantaneous Forward Voltage

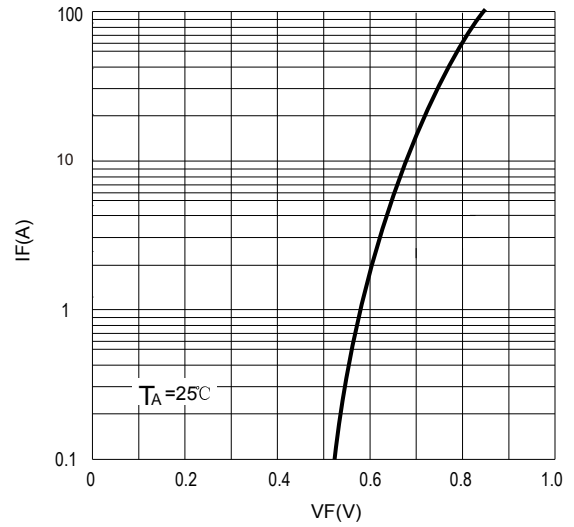


Fig3: Surge Forward Current Capability

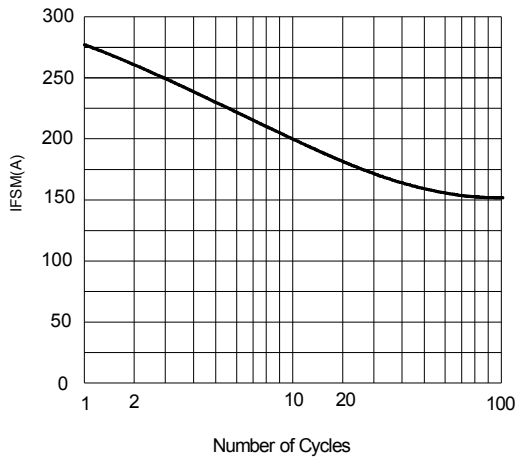
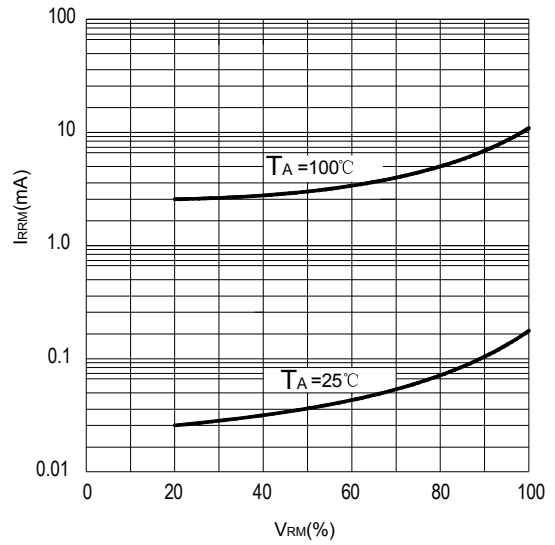


Fig4: Typical Reverse Characteristics



PACKAGE OUTLINE AND DIMENSIONS

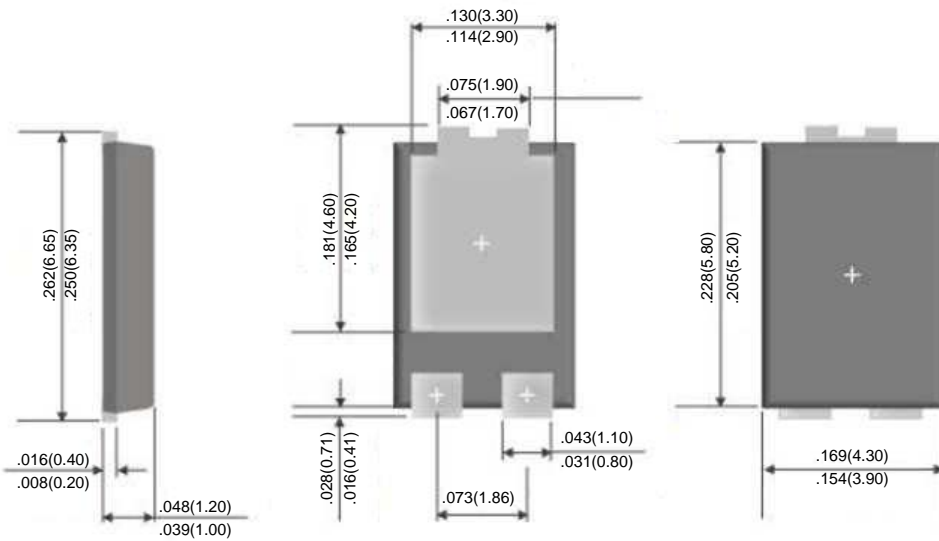
SBRL20U80

PACKAGE AND SUGGESTED PAD LAYOUT DIMENSION

TO-277

Outline drawing and Dimension

unit: inch (mm)



Packing and Ordering information

FOOT PRINT RECOMMENDATION	MARKING CODE						
<p>unit: mm</p>	<table border="1" data-bbox="831 2004 1476 2087"> <tr> <td>YS</td> <td>SBRL20U80</td> <td>XXXX</td> </tr> <tr> <td>Logo</td> <td>Device name</td> <td>Date code</td> </tr> </table>	YS	SBRL20U80	XXXX	Logo	Device name	Date code
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