

Schottky Barrier Rectifier

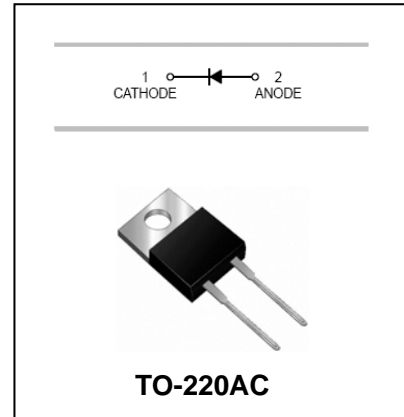
SBL2030---SBL2060

FEATURES

- Mwtal-Semiconductor Junction with Guardring.
- Epitaxial Construction.
- Low Forward Voltage Drop,Low Switching Losses.
- High Surge Capability.
- For Use in Low Voltage,High Frequency Inverters Free Wheeling,and Polarity Protection Applications.
- The Plastic Material Carries U/L Recognition 94V-0.



Lead-free



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	SBL 2030	SBL 2035	SBL 2040	SBL 2045	SBL 2050	SBL 2060	Unit
V_{RRM}	Recurrent Peak Reverse Voltage	30	35	40	45	50	60	V
V_{RMS}	RMS Reverse Voltage	21	25	28	32	35	42	V
V_{DC}	DC Blocking Voltage	30	35	40	45	50	60	V
$I_{F(AV)}$	Average Forward Total Device Rectified Current @ $T_A=100^{\circ}C$	20						A
I_{FSM}	Forward Surge Current 8.3ms Single Half Sine-wave Superimosed on Rated Load	250						A
$R_{\theta JC}$	Thermal Resistance (Note1)	1.5						$^{\circ}C/W$
T_j	Operating Junction Temperature Range	-55 to +125						$^{\circ}C$
T_{stg}	StorageTemperature Range	-55 to +150						$^{\circ}C$

Note:1.Thermal resistance from junction to case.



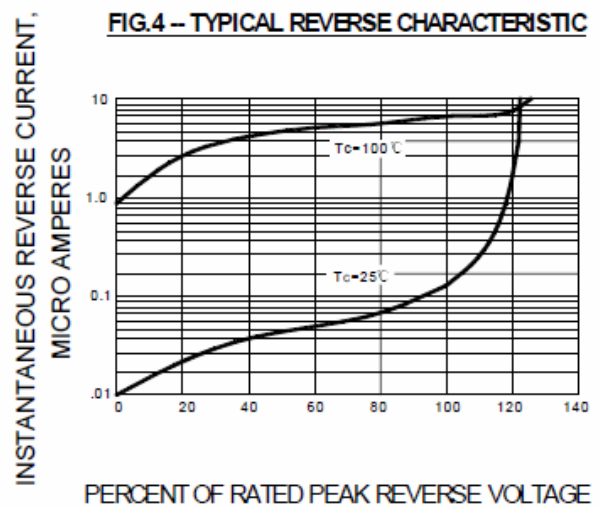
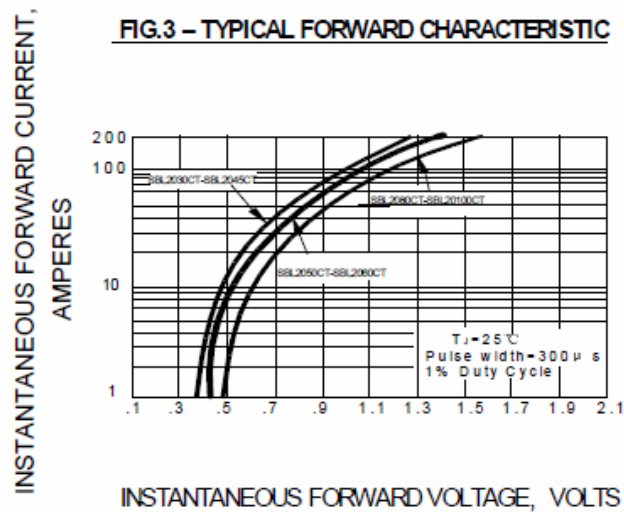
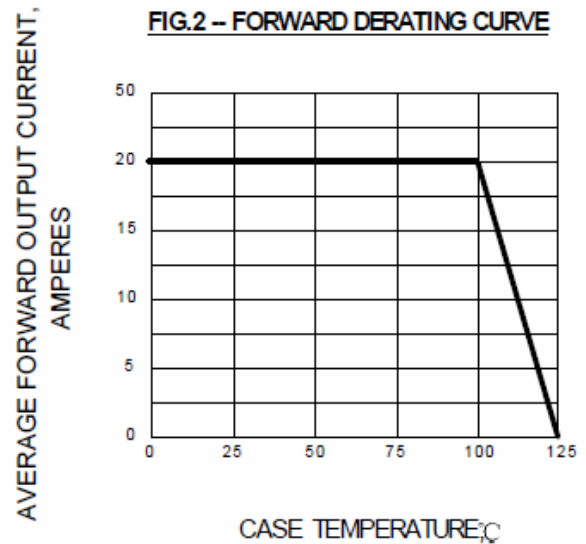
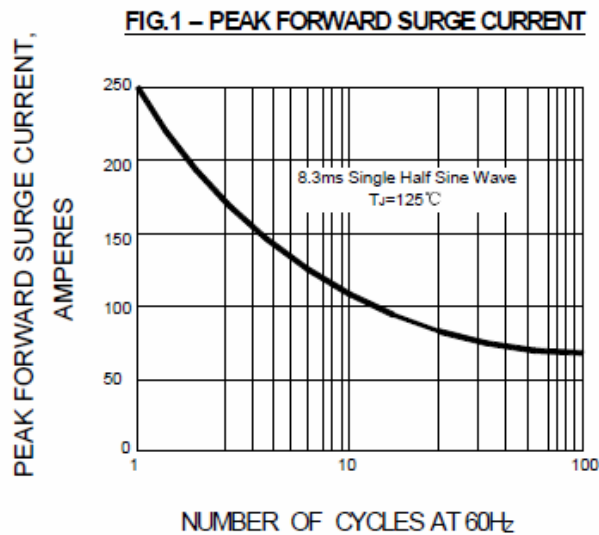
Schottky Barrier Rectifier

SBL2030---SBL2060

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	SBL2030- SBL2045	SBL2050- SBL2060	UNIT
			MAX		
Reverse Current	I_R	$V_R=V_{RRM}, T_A=25^\circ\text{C}$ $V_R=V_{RRM}, T_A=100^\circ\text{C}$	0.5 50		mA
Forward Voltage	V_F	$I_F=20\text{A}$	0.60	0.70	V

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified





Schottky Barrier Rectifier

SBL2030---SBL2060

PACKAGE OUTLINE

Plastic surface mounted package

TO-220AC

