SB1040LCT 10.0Amp Low VF Schottky Barrier Rectifiers

Features

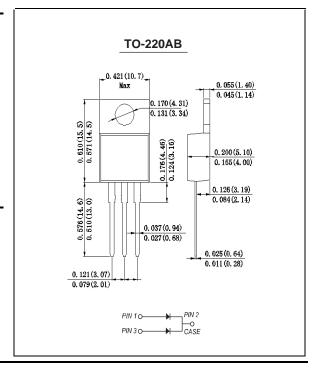
- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- → High temperature soldering guaranteed: 250°C,MAX. for 10 seconds

Mechanical Data

Case: TO-220AB molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: As marked **Mounting Position**: Any



Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	SB1040LCT	UNITS
Maximum repetitive peak reverse voltage	VRRM	40	VOLTS
Maximum RMS voltage	VRMS	28	VOLTS
Maximum DC blocking voltage	VDC	40	VOLTS
Maximum average forward rectified current	l(AV)	10.0	Amps
(see fig.1)		10.0	
Peak forward surge current			
8.3ms single half sine-wave superimposed on	IFSM	100.0	Amps
rated load (JEDEC Method)			
Maximum instantaneous forward voltage at 5.0A	VF	0.46	Volts
Maximum DC reverse current Ta=25°C		0.5	mA
at rated DC blocking voltage Ta=100℃	IR —	40.0	
Typical thermal resistance (NOTE 1)	Rejc	12	°C/W
Operating junction temperature range	TJ	-55 to +125	°C
Storage temperature range	Тѕтс	-55 to +150	°C

Note: 1. Thermal resistance from junction to case

Ratings And Characteristic Curves SB1040LCT

FIG. 1- FORWARD CURRENT DERATING CURVE

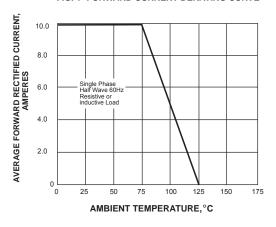


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

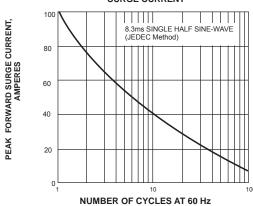
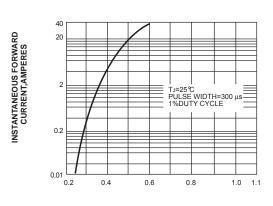


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

