Pb Free Plating Product

SBLF1630CT/SBLF1640CT





16.0 Ampere Insulated Pkg Common Cathode Schottky Barrier Rectifier Diodes

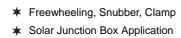


Guardring for overvoltage protection

Features

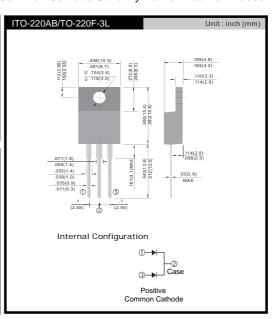
- Ideally Suited for Automatic Assembly
- Low Forward Voltage
- High Surge Current Capability
- Low Leakage Current

PFC



Applications

- ★ Plating Power Supply
- ★ Ultrasonic Cleaner and Welder
- ★ Converter & Chopper
- **★** UPS/LED SMPS/HID



Maximum Ratings (Tc = 25°C unless otherwise noted)

Parameter	Symbol	SBLF1630CT/SBLF1640CT	Unit
Maximum repetitive peak reverse voltage	Vrrm	45V(Typical>50V)	V
Working peak reverse voltage	VRWM	32	V
Maximum DC blocking voltage	VDC	45V(Typical>50V)	V
Maximum average forward rectified current Total device at Tc = 95°C Per leg	IF(AV)	16 8.0	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) per leg	IFSM	250	А
Operating junction and storage temperature range	TJ, TSTG	-40 to +125	°C
RMS Isolation voltage (SBLF type only) from terminals to heatsink with t = 1.0 second, RH \leq 30%	VisoL	4500 (NOTE 1) 3500 (NOTE 2) 1500 (NOTE 3)	V

Electrical Characteristics (TC = 25°C unless otherwise noted)

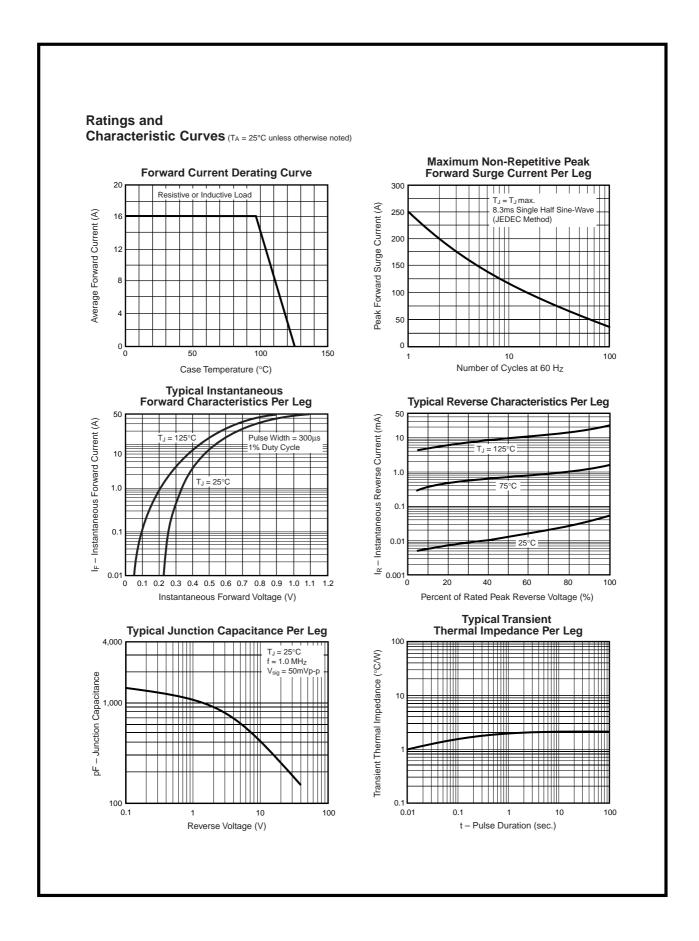
Parameter	Symbol	Value	Unit
Maximum instantaneous forward voltage per leg at 10.0 A (Note 4)	VF	0.49V	V
Maximum instantaneous reverse current $TC = 25^{\circ}C$ at rated DC blocking voltage per leg (Note 4) $TC = 100^{\circ}C$	I _R	0.5 50	mA

Thermal Characteristics (TC = 25°C unless otherwise noted)

Parameter	Symbol	SBLF1630CT/SBLF1640CT	Unit
Typical thermal resistance from junction to case per leg	R⊝JC	3.0	°C/W

- Notes: (1) Clip mounting (on case), where lead does not overlap heatsink with 0.110" offset (2) Clip mounting (on case), where leads do overlap heatsink (3) Screw mounting with 4-40 screw, where washer diameter is \leq 4.9 mm (0.19") (4) Pulse test: 300μ s pulse width, 1% duty cycle

Edition:20210603 Page 1/2



Edition:20210603 Page 2/2