

SBL1630CT ~ SBL1640CT

DUAL SCHOTTKY BARRIER RECTIFIERS

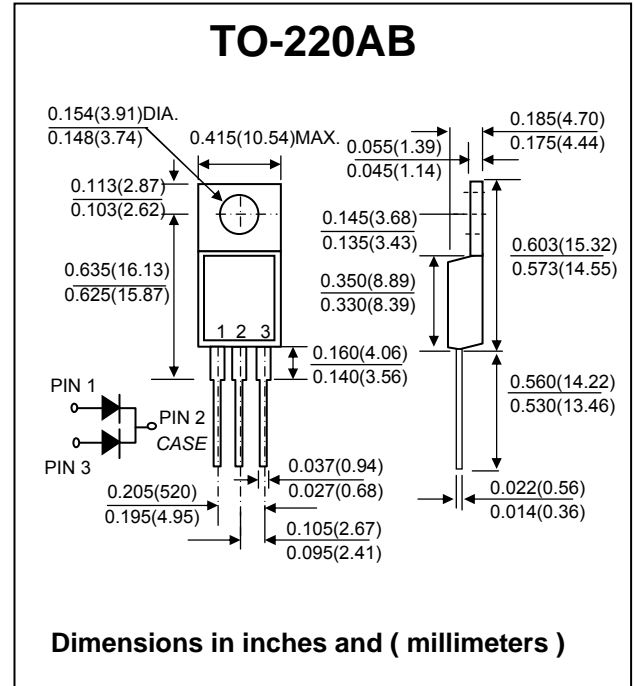
PRV : 30 ~ 40 Volts
Io : 16 Amperes

FEATURES :

- * Plastic package has Underwriters Laboratory Flammability Classifications 94V-0
- * Dual rectifier construction, positive center tap
- * Metal silicon junction, majority carrier conduction
- * Low power loss, high efficiency
- * Guardring for overvoltage protection
- * For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- * High temperature soldering : 250°C/10 seconds, 0.25" (6.35mm) from case
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : JEDEC TO-220AB molded plastic body
- * Terminals: Plated leads, solderable per MIL-STD-750 Method 2026
- * Polarity: As marked
- * Mounting Position: Any
- * Weight : 2.24 grams (Approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_c = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	SBL1630CT	SBL1640CT	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	30	40	V
Maximum Working Peak Reverse Voltage	V _{RWM}	21	28	V
Maximum DC Blocking Voltage	V _{DC}	30	40	V
Maximum Average Forward Rectified Current at T _c = 95 °C <i>Total device</i> <i>Per leg</i>	I _{F(AV)}	16 8.0		A
Peak Forward Surg Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) Per leg	I _{FSM}	250		A
Maximum Instantaneous Forward Voltage at 8.0 A (Note 1)	V _F	0.55		V
Maximum Instantaneous Reverse Current Per leg at Rate DC Blocking Voltage (Note 1)	I _R	0.5 50		mA
Typical Thermal Resistance (Junction to Case) Per Leg	R _{θJC}	2.0		°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-40 to + 125		°C

Note :

(1) Pulse test : 300 μs pluse width, 1% duty cycle

RATING AND CHARACTERISTIC CURVES (SBL1630CT ~ SBL1640CT)

FIG.1 - FORWARD CURRENT DERATING CURVE

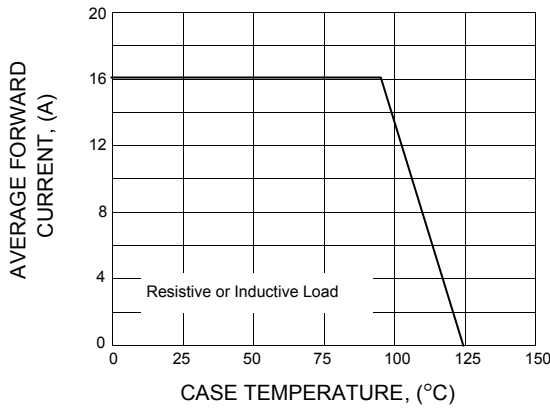


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

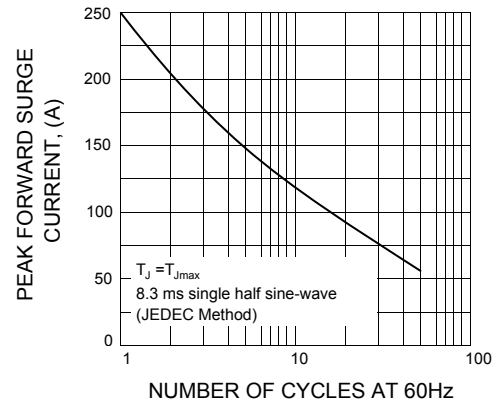


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

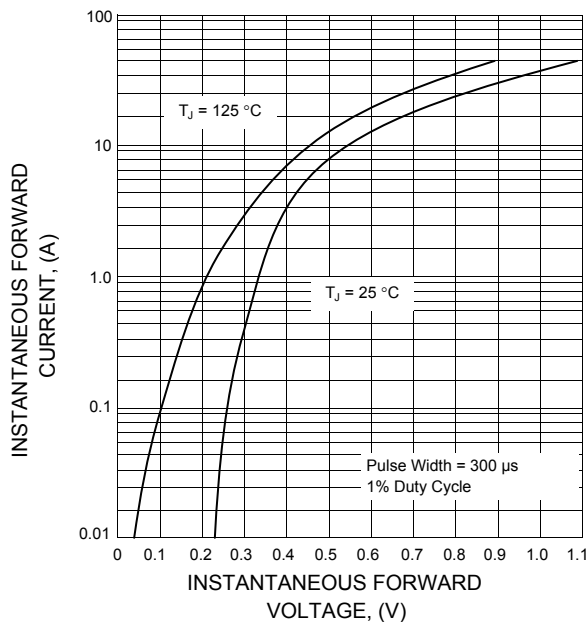


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

