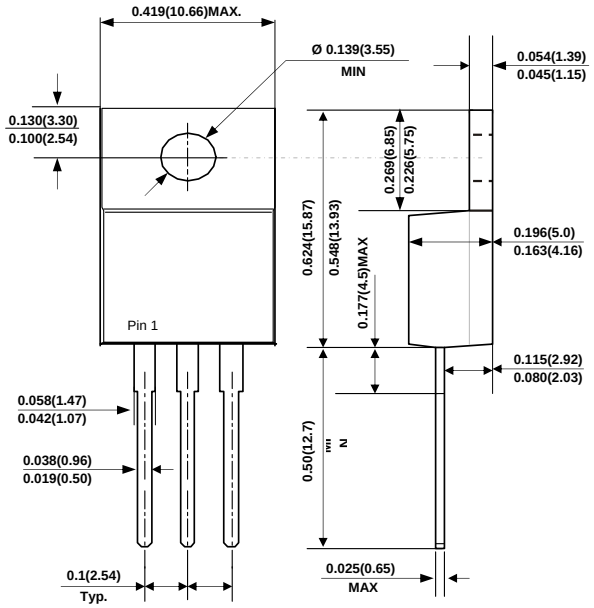
SB3020CT THRU SB30200CT

30 AMPERS SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage - 20 to 200 Volts Forward Current - 30.0 Ampere

TO-220AB



Dimensions in inches and (millimeters)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- Low forwrd voltge, high current capability
- Low power loss, high efficiency.
- High surge capacity.
- For use in low voltage,high frequency inverters free wheeling, and polarlity protection applications.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: JEDEC TO-220AB, Molded plastic package
Terminals: Solderable per MIL-STD-750，Method 2026
Approx. Weight: 0.0655 ounces, 1.859 grams.
Standard Packaging : Tube
Mounting Position: Any.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	*SYMBOLS*	SB 3020CT	SB 3045CT	SB 3060CT	SB 3080CT	SB 30100CT	SB 30150CT	SB 30200CT	**UNITS**
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	80	100	150	200	Volts
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	105	140	Volts
Minimum Reverse Breakdown Voltage	V_R	20	40	60	80	100	150	200	Volts
Average Rectified current	$I_{(AV)}$	30.0							Amp
Non-repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	275							Amps
Maximum Forward Voltage at I_F=15.0A per die	V_F	0.55		0.75	0.80		0.92		Volts
Reverse Leakage Current at V_{RRM}	I_R	0.5							mA
Typical Thermal Resistance	$R_{\theta JA}$	5.0							℃/W
Operating Junction Temperature Range	T_J	-55 to +125	-55 to +150						℃
StorageTemperature Range	T_{STG}	-55 to +150							℃

Note: Both Bonding and Chip structure are available

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

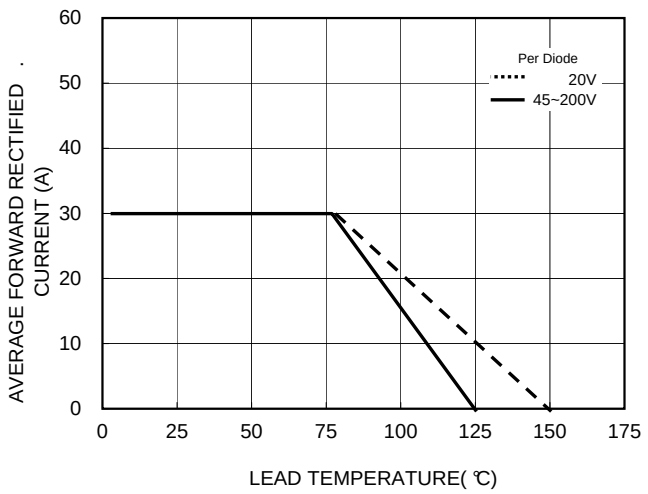

FIG. 2-TYPICAL FORWARD SURGE CHARACTERISTICS

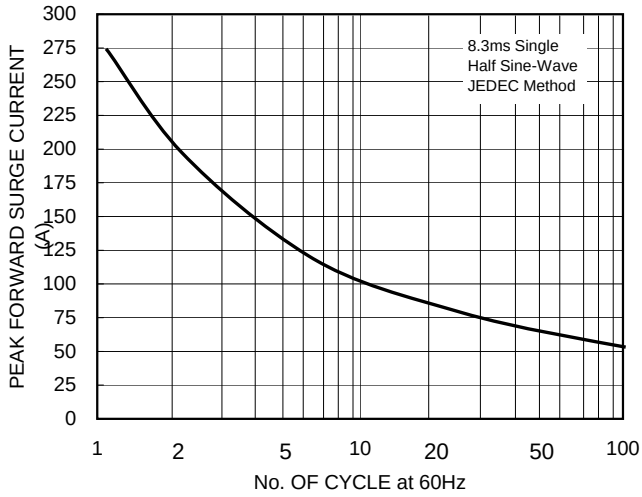

FIG. 3-TYPICAL REVERSE CHARACTERISTICS

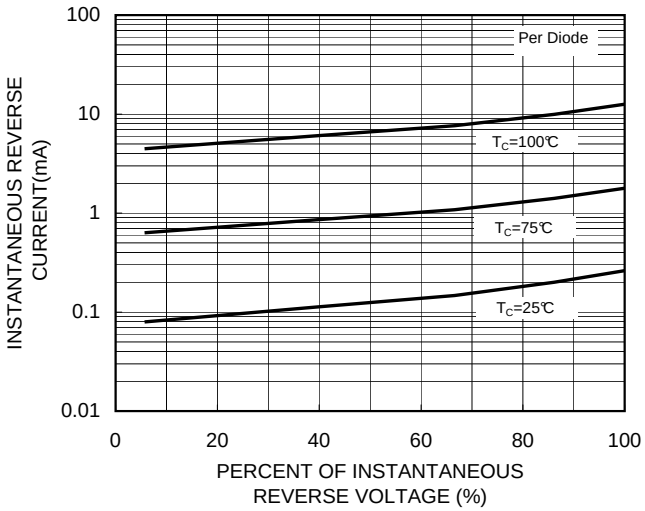

FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS