

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE: 20 --- 60 V
CURRENT: 2.0 A

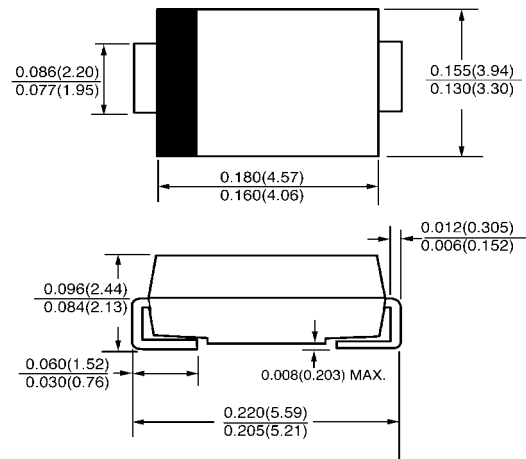
FEATURES

- ◇ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◇ For surface mounted applications
- ◇ Low profile package
- ◇ Built-in strain relief
- ◇ Metal silicon junction, majority carrier conduction
- ◇ High surge capability
- ◇ High current capability, low forward voltage drop
- ◇ Low power loss, high efficiency
- ◇ For use in low voltage high frequency inverters, free wheeling and polarity protection applications
- ◇ Guardring for overvoltage protection
- ◇ High temperature soldering guaranteed: 250°C/10 seconds at terminals

MECHANICAL DATA

- ◇ Case: JEDEC DO-214AA, molded plastic over passivated chip
- ◇ Terminals: Solder Plated, solderable per MIL-STD-750, Method 2026
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: 0.003 ounces, 0.093 gram

DO - 214AA(SMB)



inch(mm)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

		B220	B230	B240	B250	B260	UNITS
Device marking code		B2	B3	B4	B5	B6	
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS voltage	V _{RWS}	14	21	28	35	42	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	V
Maximum average forward rectified current at T _L (SEE FIG.1) (NOTE 2)	I _(AV)	2.0					A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	50.0					A
Maximum instantaneous forward voltage at 2.0A(NOTE.1)	V _F	0.5			0.7		V
Maximum DC reverse current @T _A =25°C at rated DC blocking voltage(NOTE1) @T _A =100°C	I _R	0.5 20					mA
Typical thermal resistance (NOTE2)	R _{θJL}	15.0					°C/W
Operating junction and storage temperature range	T _{STG}	-55--- +150					°C
Storage temperature range	T _J	-55--- +150			-55--- +150		°C

NOTE: 1. Pulse test: 300 μ s pulse width, 1% duty cycle

2. P.C.B. mounted with 0.55"X0.55" (14.0X14.0mm²) copper pad areas

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FIG.1 – FORWARD DERATING CURVE

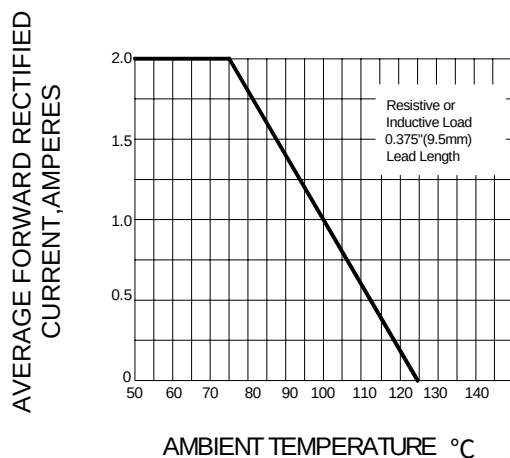


FIG.2-- PEAK FORWARD SURGE CURRENT

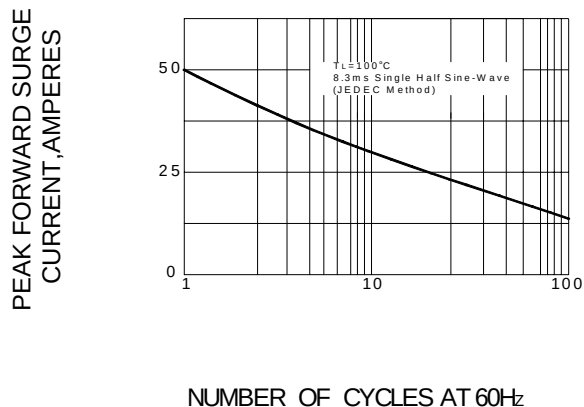


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

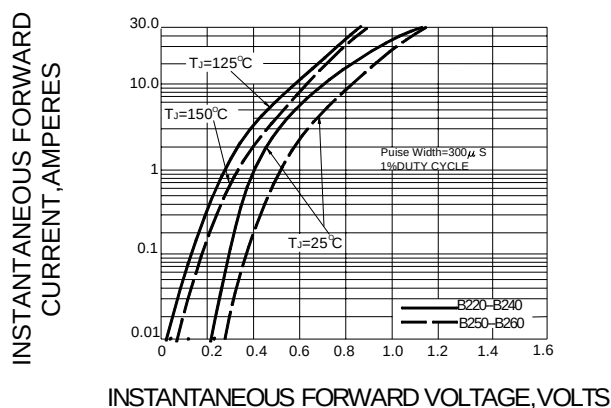


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

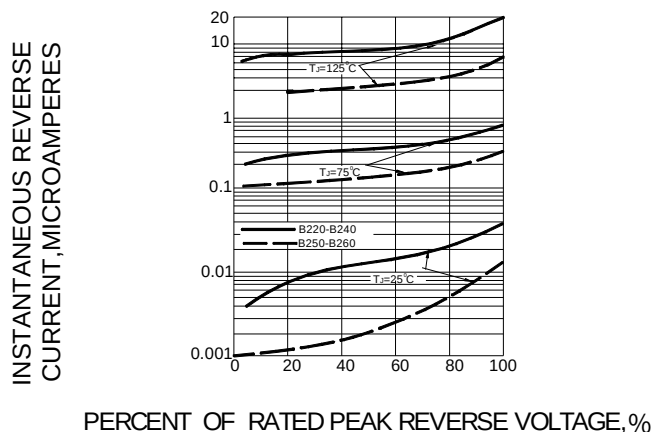


FIG.5-TYPICAL JUNCTION CAPACITANCE

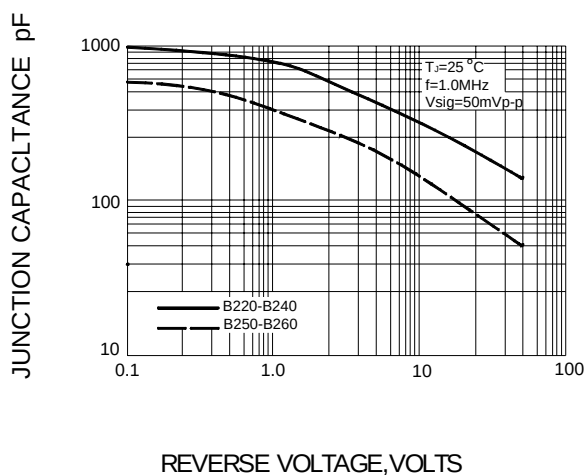


FIG.6- TYPICAL TRANSIENT THERMAL IMPEDANCE

