

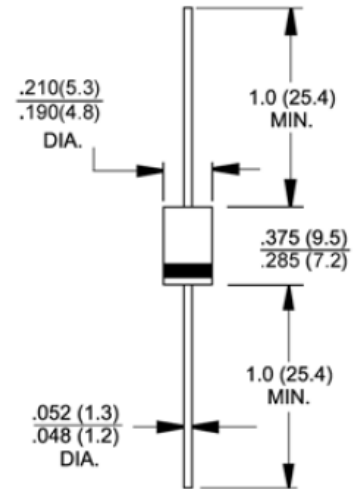
Features

- ◆ Plastic Package Has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Low power loss , high efficiency
- ◆ For use in low voltage , high frequency inverters , free wheeling , and polarity protection applications
- ◆ Guardring for overvoltage protection


DO-201AD

Mechanical Data

- ◆ Case : JEDEC DO-20AD molded plastic bobkly
- ◆ Terminals: Plated axial leads , solderable per MIL-STD-750,Method 2026
High temperature soldering guaramteed:
250°C/10 seconds 0.375"(9.5mm) Lead Length,
5lbs (2.3kg) tension
- ◆ Polarity : Color band denotes cathode end
- ◆ Weight : 0.014 ounce , 1.15 gram
- ◆ Mounting position : Any


Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

(TA= 25°C unless otherwise noted)

Parameter	Symbol	SB 5B5	SB5C0	Units
Maximum repetitive peak reverse voltage	V_{RRM}	150	200	Volts
Maximum RMS voltage	V_{RMS}	105	140	Volts
Maximum DC blocking voltage	V_{DC}	150	200	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length at $T_L=100^{\circ}C$	$I_{F(AV)}$	5.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rates load	I_{FSM}	150		Amps
Maximum DC reverse current @ $T_j=25^{\circ}C$ at rated DC blocking voltage @ $T_j=100^{\circ}C$	I_R	0.01 5		mA
Maximum forward voltage at 5.0A DC	V_F	0.90		Volts
Typical thermal resistance(Note 2)	$R_{\theta JL}$	16		$^{\circ}C/W$
Operating junction temperature range	T_j	-55 to +150		$^{\circ}C$
storage temperature range	T_{STG}	-55 to +150		$^{\circ}C$

Notes: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal Resistance Junction to Lead.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 – FORWARD CURRENT DERATING CURVE

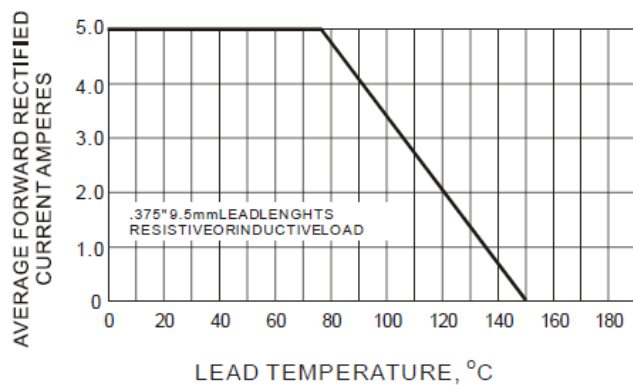


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

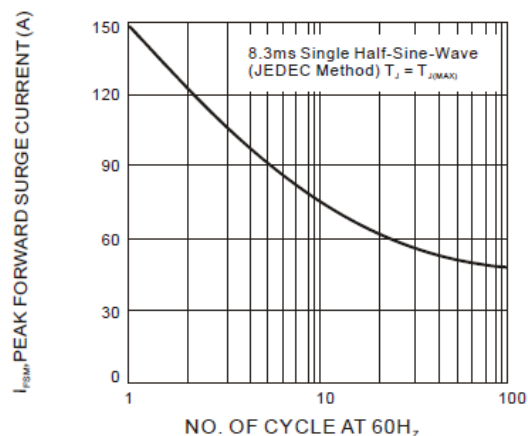


FIG.3 – TYPICAL REVERSE CHARACTERISTIC

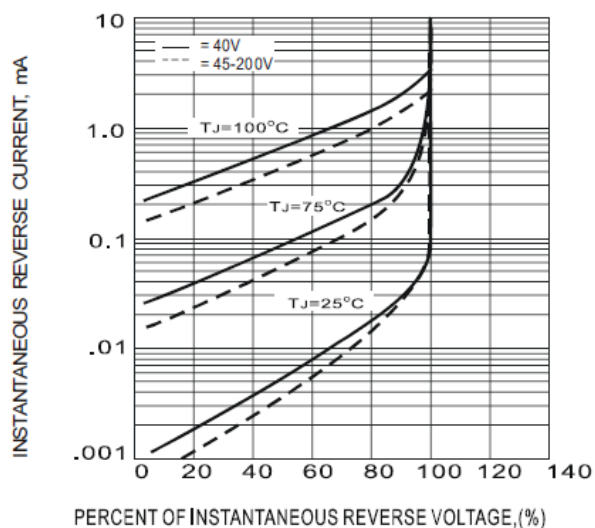


FIG.4 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

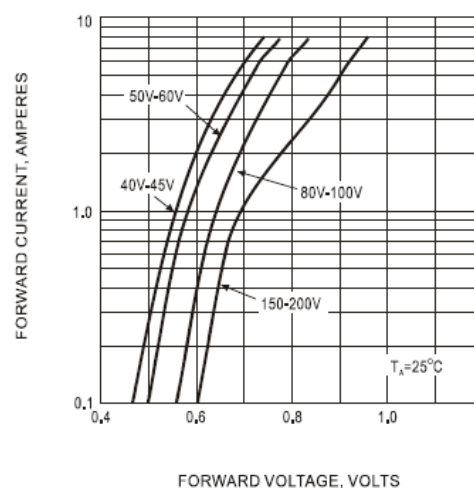


FIG.5 – TYPICAL TOTAL CAPACITANCE

