

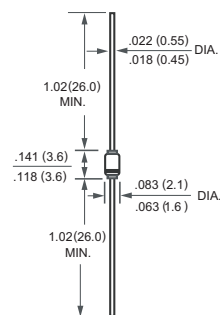
FAST SWITCHING SURFACE MOUNT DIODES

FEATURES

- * Silicon epitaxial planar diode
- * DO-35 Package, glass case
- * Fast switching Speed
- * 500 mW power dissipation
- * Polarity: Color band denotes cathode
- * P/N suffix V means AEC-Q101 qualified, e.g:BAW76V

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.



MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE	UNITS
Peak Reverse Voltage	V_{RM}	75	V
Maximum DC Blocking Voltage	V_{DC}	50	V
Maximum Average Forward Current at $T_A=25^{\circ}C$ And $f \geq 50Hz$	$I_{F(AV)}$	150	mA
Surge Forward Current at $t < 1s$ and $T_J=25^{\circ}C$	I_{FSM}	500	mA
Power Dissipation at $T_A= 25^{\circ}C$	P_{TOT}	500	mW
Maximum Forward Voltage at $I_F=100mA$	V_F	1	V
Maximum Leakage Current at $V_R=50V$ at $V_R=50V, T_J= 150^{\circ}C$	I_R	100 100	nA μA
Maximum Capacitance at $V_F=V_R=0$	C_J	4	pF
Maximum Reverse Recovery Time From $I_F = I_R = 10mA$ to $I_{RR}=-1mA, V_R=6V, R_L=100 \Omega$	t_{rr}	2	ns
Typical Maximum Thermal Resistance	$R_{\theta JA}$	350	$^{\circ}C / W$
Junction Temperature and Storage Temperature Range	T_J, T_s	-65 to +175	$^{\circ}C$

RATING AND CHARACTERISTICS CURVES (BAW76)

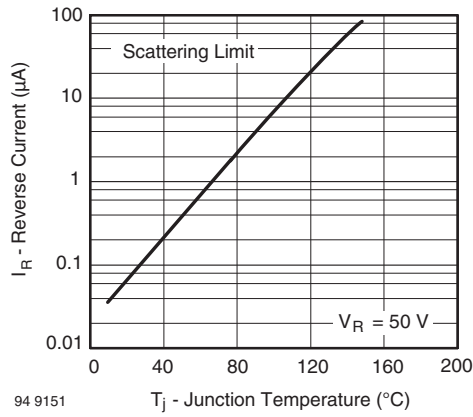


Fig. 1 - Reverse Current vs. Junction Temperature

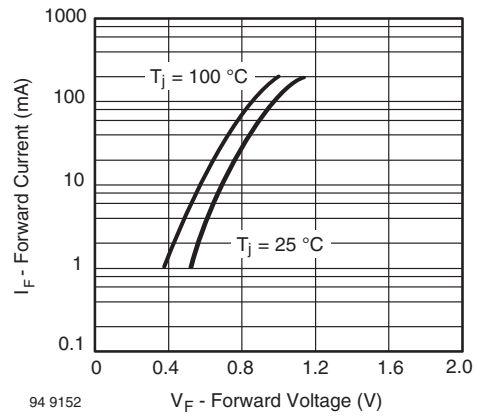


Fig. 2 - Forward Current vs. Forward Voltage

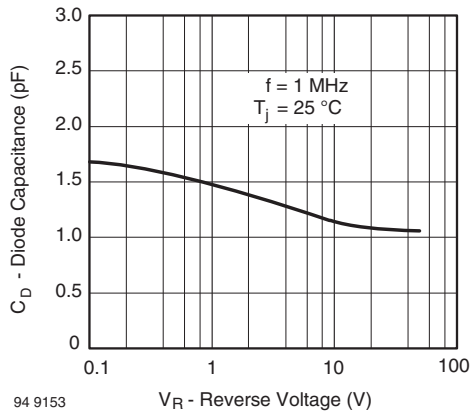
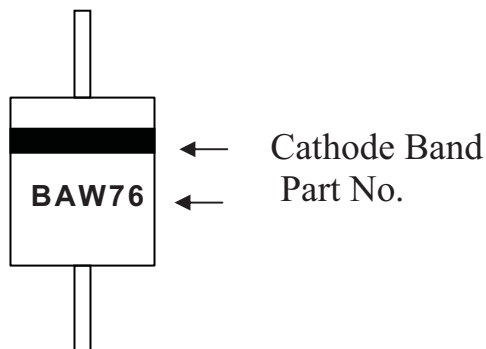


Fig. 3 - Diode Capacitance vs. Reverse Voltage

MARKING INFORMATION



PACKAGING OF DIODE

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-35	-B	10,000	240*100*100	410*350*275	120,000	21.5

REEL PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-35	-T	10,000	5.0	52	356	380*380*420	50,000	11.00

AMMO PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON (EA)	GROSS WEIGHT (Kg)
DO-35	-F	5,000	5.0	52	250*80*80	410*260*340	100,000	20.00

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