DATA SHEET

BAW56W/BAV70W/BAV99W

SURFACE MOUNT SWITCHING DIODES

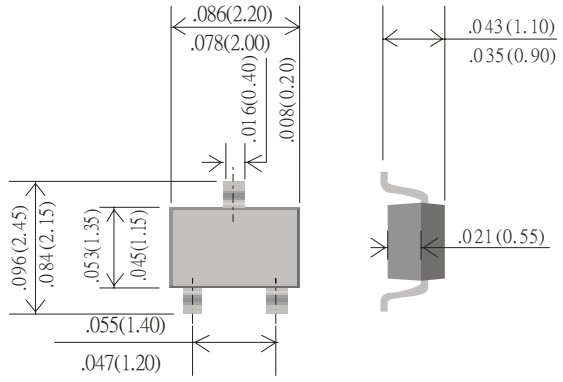
VOLTAGE **75 Volts** **POWER** **200 mW**

FEATURES

- FAST SWITCHING SPEED
- SURFACE MOUNT PACKAGE IDEALLY SUITED FOR AUTOMATIC INSERTION
- ELECTRICALLY IDENTICAL TO STANDERD JEDEC
- HIGH CONDUCTANCE

MECHANICAL DATA

- CASE：SOT-323 PLASTIC
- TERMINALS：SOLDERABLE PER MIL-STD-202 METHOD 208
- APPROX.WEIGHT:0.0052 GRAMS



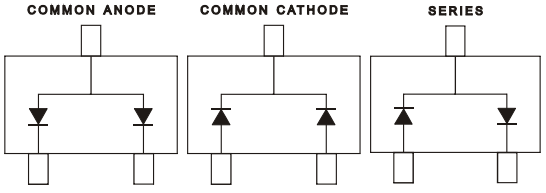
CASE：SOT-323

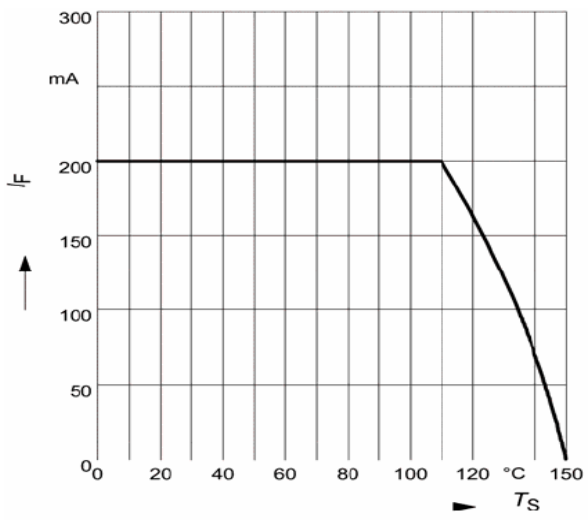
DIMENSIONS IN INCHES AND (MILLIMETERS)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

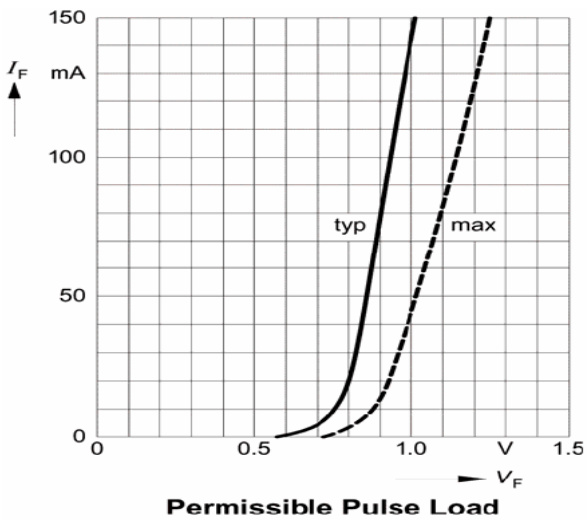
RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.						
PARAMETER		SYMBOL	BAW56W	BAV70W	BAV99W	UNITS
MAXIMUM REVERSE VOLTAGE		V_R	75			V
PEAK FORWARD CURRENT		I_F	150			mA
POWER DISSIPATION DERATE ABOVE 25℃		P_{TOT}	200			mW
JUNCTION TEMPERATURE		T_J	150			℃
STORAGE TEMPERATURE		T_{STG}	-65~ +150			℃
ELECTRICAL CHARACTERISTICS (A_T T_A =25°C UNLESS OTHERWISE NOTED)						
PARAMETER		SYMBOL	BAW56W	BAV70W	BAV99W	UNITS
MAXIMUM FORWARD VOLTAGE	I_F=1mA	V_F	0.715			V
	I_F=10mA		0.855			
	I_F=50mA		1.0			
	I_F=150mA		1.25			
MAXIMUM DC REVERSE CURRENT	V_R=25V	I_R	0.025			μA
	V_R=75V		2.5			
DIODE CAPACITANCE (NOTE 1)		C_D	1.5			pF
REVERSE RECOVERY TIME (NOTE 2)		T_{RR}	4.0			ns
CIRCUIT FIGURE			COMMON ANODE	COMMON CATHODE	SERIES	

NOTE: 1. C_D AT V_R=0, f=1MHz
2. FROM I_F=10mA TO I_R=1mA ,V_R=6V ,R_L=100Ω

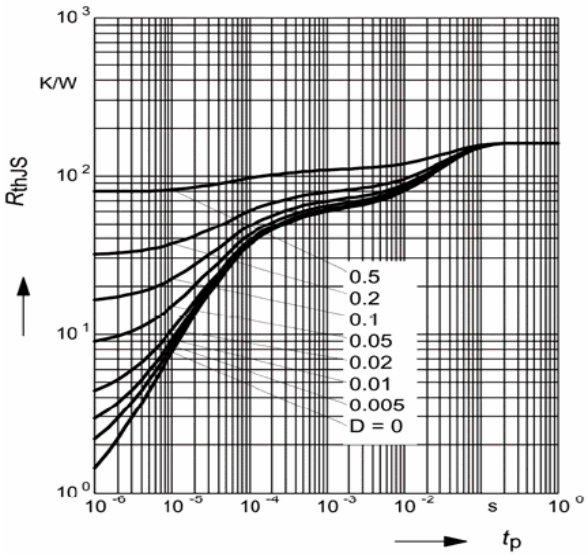


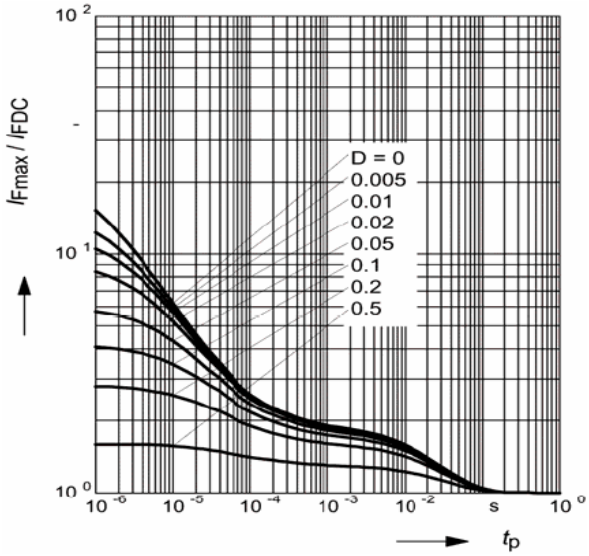


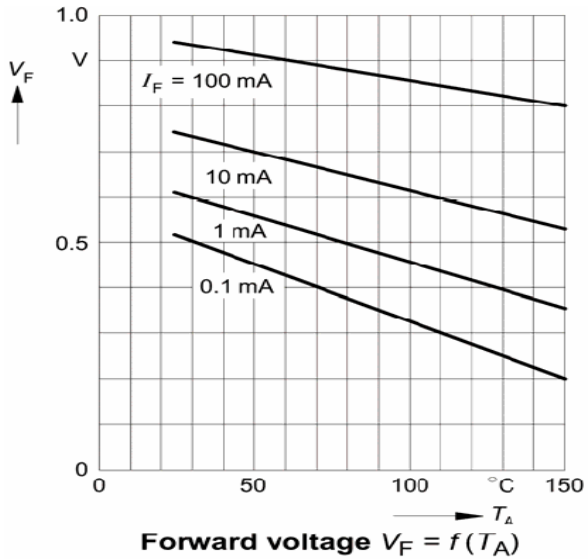
Permissible Pulse Load $R_{thJS} = f(t_p)$



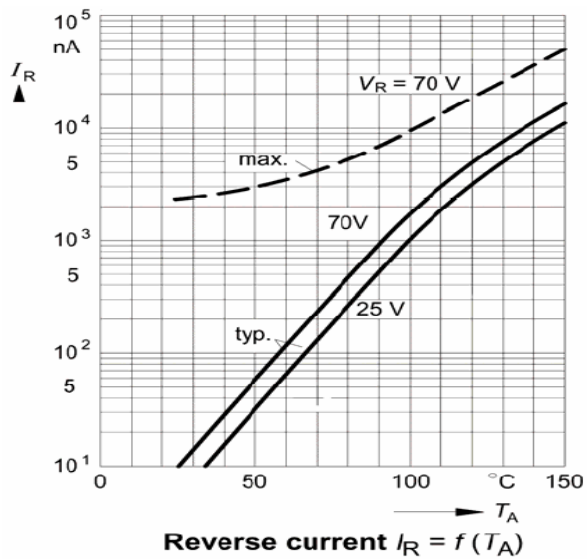
Permissible Pulse Load
$I_{Fmax} / I_{FDC} = f(t_p)$







Forward voltage $V_F = f(T_A)$



Reverse current $I_R = f(T_A)$