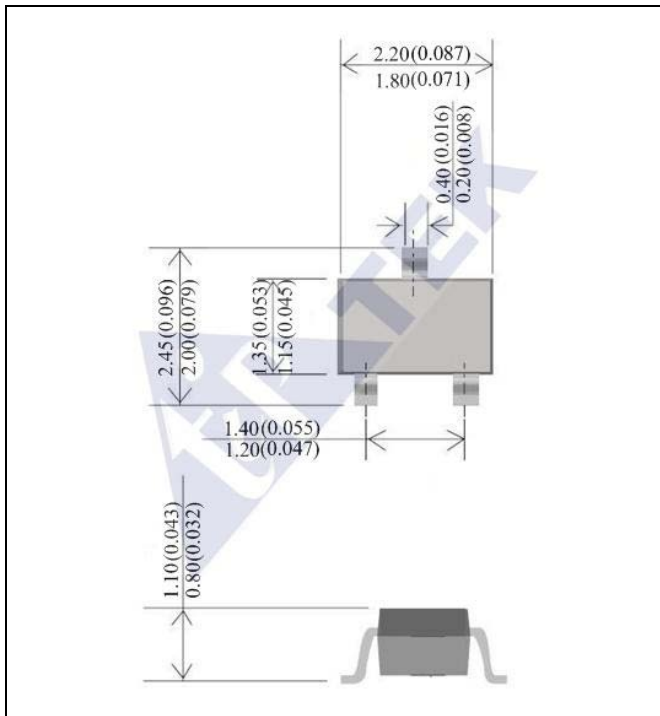


200mW SURFACE MOUNT SWITCHING DIODES



CASE : SOT-323

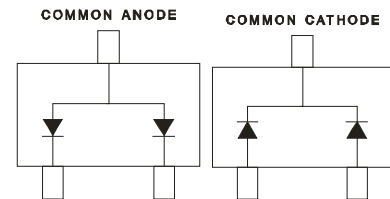
DIMENSIONS IN MILLIMETERS AND (INCHES)

FEATURES

- FAST SWITCHING SPEED
- SURFACE MOUNT PACKAGE IDEALLY SUITED FOR AUTOMATIC INSERTION
- ELECTRICALLY IDENTICAL TO STANDARD JEDEC
- HIGH CONDUCTANCE
- BOTH NORMAL AND Pb FREE PRODUCT ARE AVAILABLE:
 NORMAL:80~95%Sn,5~20%Pb
 Pb FREE:98.5% Sn ABOVE

MECHANICAL DATA

- CASE : SOT-323 PLASTIC
- TERMINALS : SOLDERABLE PER MIL-STD-202 METHOD 208
- APPROX. WEIGHT:0.006GRAM
- Pb Free: BAW56W/BAV70W
 Halogen Free: BAW56W-H/BAV70W-H



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

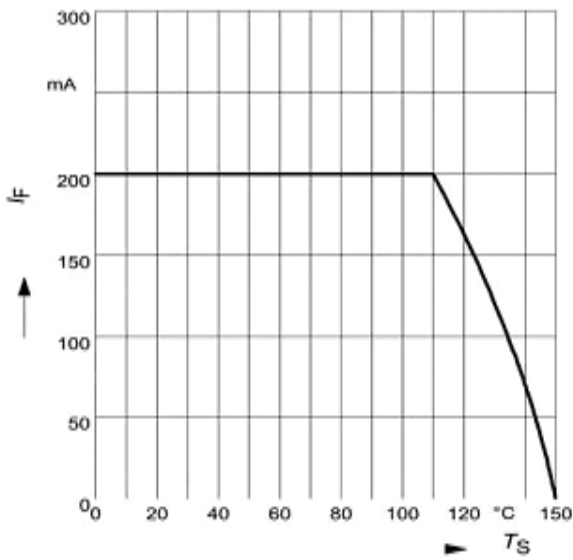
RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	BAW56W	BAV70W	UNITS
MAXIMUM REVERSE VOLTAGE	V_R	70		V
PEAK FORWARD CURRENT	I_F	200		mA
POWER DISSIPATION DERATE ABOVE 25°C	P_{TOT}	200		mW
JUNCTION TEMPERATURE	T_J	150		°C
STORAGE TEMPERATURE	T_{stg}	-65 TO +150		°C

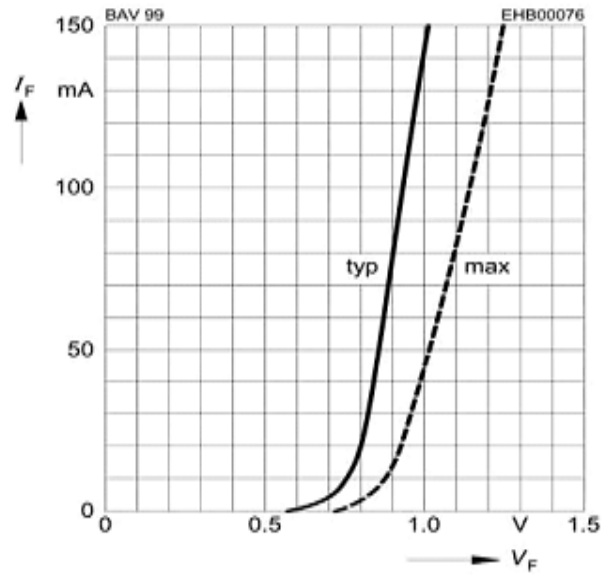
ELECTRICAL CHARACTERISTICS (AT $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

PARAMETER	SYMBOL	BAW56W	BAV70W	UNITS
REVERSE BREAKDOWN VOLTAGE($I_R=100 \mu\text{A}$)	$V_{(BR)}$	70(MIN)		V
MAXIMUM FORWARD VOLTAGE	V_F	0.715@ $I_F=0.001\text{A}$ 0.855@ $I_F=0.01\text{A}$ 1.0@ $I_F=0.05\text{A}$ 1.25@ $I_F=0.15\text{A}$		V
MAXIMUM DC REVERSE CURRENT AT 70V 20V	I_R	2.5 0.025		μA
MAXIMUM DIODE CAPACITANCE (NOTE 1)	C_D	2.0		pF
MAXIMUM REVERSE RECOVERY (NOTE 2)	T_{RR}	6		nS
CIRCUIT FIGURE		COMMON ANODE	COMMON CATHODE	

NOTE: 1. C_D AT $V_R=0, f=1\text{MHZ}$ 2.FROM $I_F=I_R=10\text{mA}, I_{RR}=1\text{mA}, R_L=100\Omega$

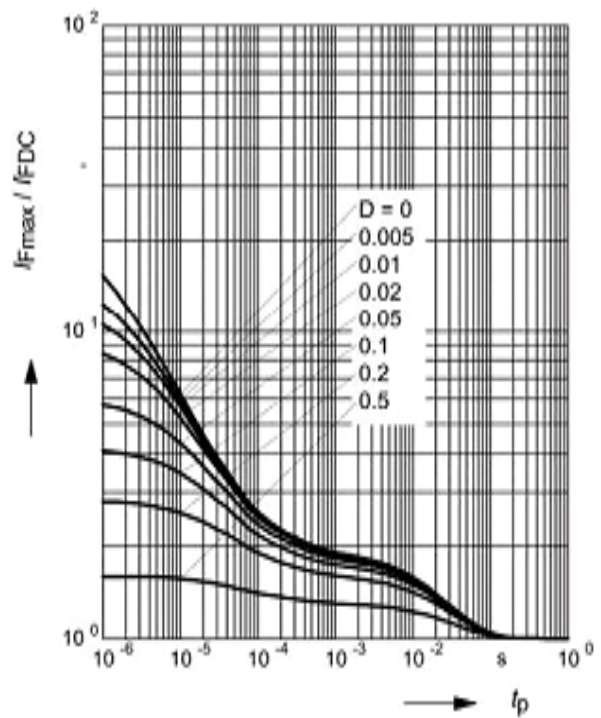
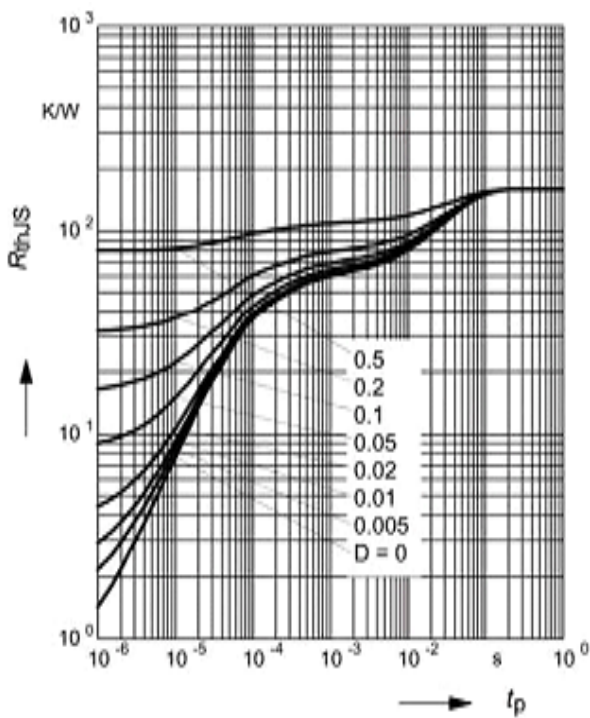


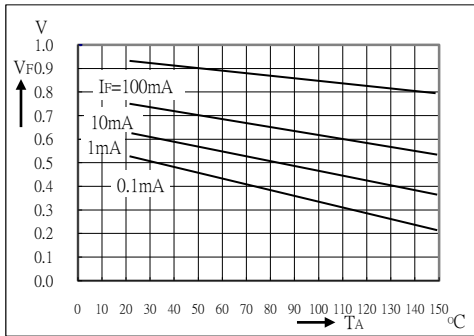
Permissible Pulse Load $R_{thJS} = f(t_p)$



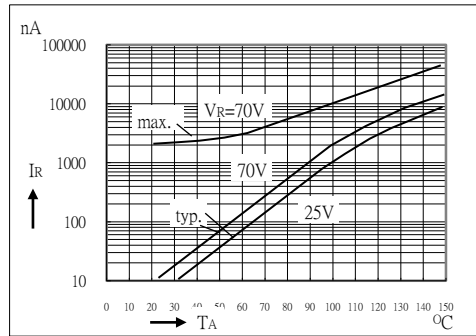
Permissible Pulse Load

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

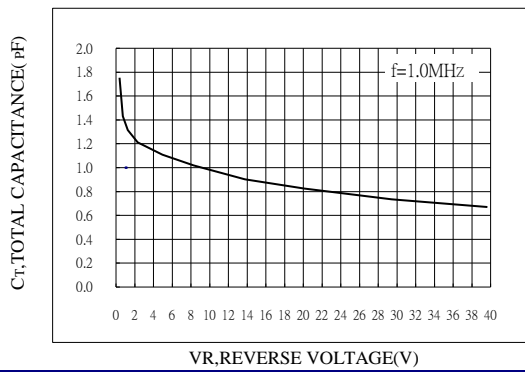




FORWARD VOLTAGE $V_F=f(T_A)$



REVERSE CURRENT $I_R=f(T_A)$



Typical Capacitance vs. Reverse Voltage