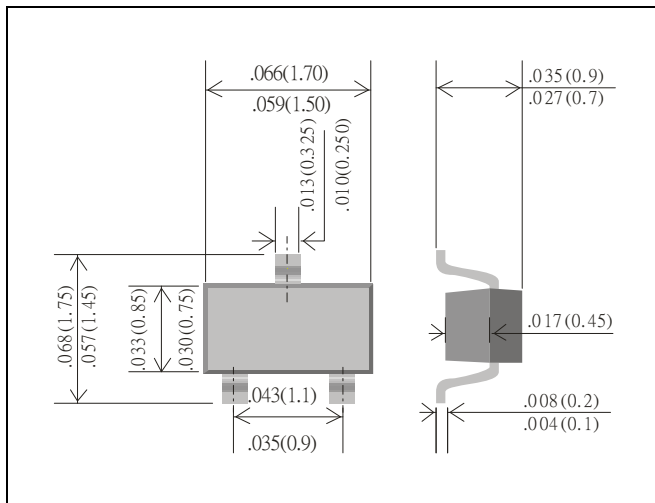


## 150mW SURFACE MOUNT SWITCHING DIODES



CASE : SOT-523

DIMENSIONS IN INCHES AND (MILLIMETERS)

### FEATURES

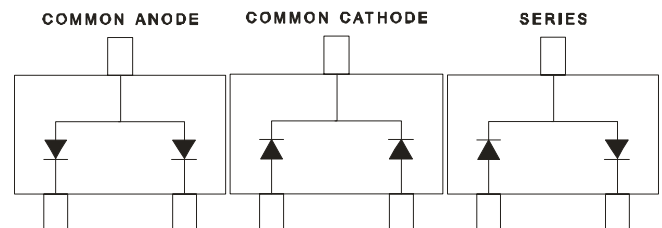
- FAST SWITCHING SPEED
- ELECTRICALLY IDENTICAL TO STANDERD JEDEC
- HIGH CONDUCTANCE
- SURFACE MOUNT PACKAGE IDEALLY SUITED FOR AUTOMATIC INSERTION
- BOTH PB FREE AND HALOGEN FREE ARE AVAILABLE

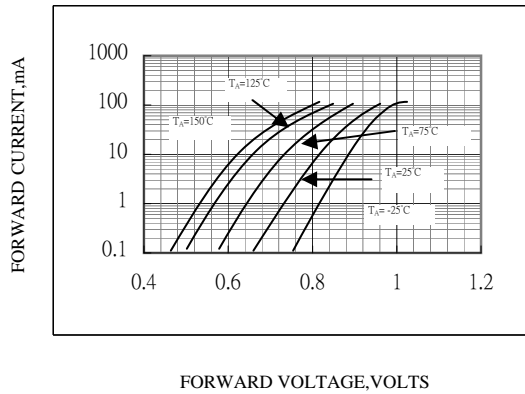
### MECHANICAL DATA

- CASE : SOT-523,PLASTIC
- TERMINALS : SOLDERABLE PER MIL-STD-202, METHOD208

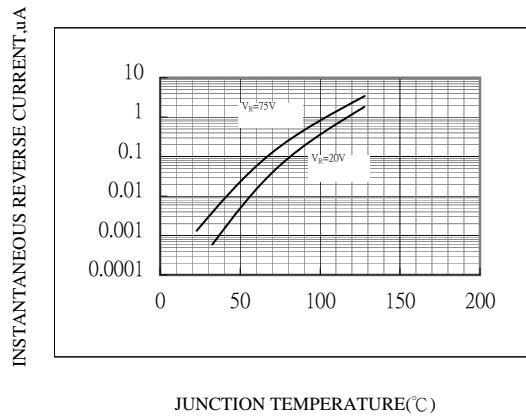
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.					
PARAMETER	SYMBOL	BAW56TG	BAV70TG	BAV99TG	UNITS
MAXIMUM REVERSE VOLTAGE	$V_R$		85		V
PEAK FORWARD CURRENT	$I_F$		75		mA
POWER DISSIPATION DERATE ABOVE 25°C	$P_{TOT}$		150		mW
JUNCTION TEMPERATURE	$T_J$		150		°C
STORAGE TEMPERATURE	$T_{stg}$		-55~+150		°C
ELECTRICAL CHARACTERISTICS (AT $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)					
PARAMETER	SYMBOL	BAW56TG	BAV70TG	BAV99TG	UNITS
REVERSE BREAKDOWN VOLTAGE	$V_{(BR)}$		85(MIN)		V
MAXIMUM FORWARD VOLTAGE	$I_R=100 \mu\text{A}$		0.715		V
	$I_F=0.001\text{A}$		0.855		
	$I_F=0.01\text{A}$		1.0		
	$I_F=0.05\text{A}$		1.25		
MAXIMUM DC REVERSE CURRENT	$I_R$		2.0		$\mu\text{A}$
			0.03		
DIODE CAPACITANCE	$C_D$		1.5		pF
MAXIMUM REVERSE RECOVERY	$T_{RR}$		4.0		nS
CIRCUIT FIGURE		COMMON ANODE	COMMON CATHODE	SERIES	

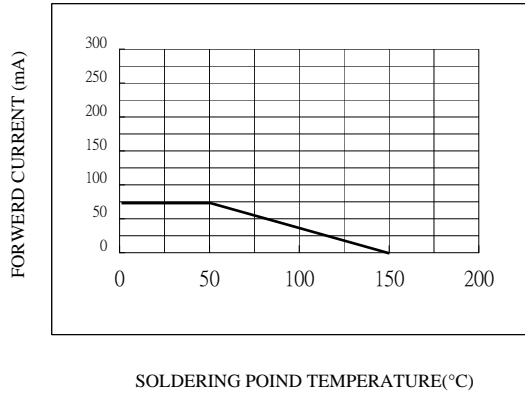




**Fig.1-TYPICAL FORWARD CHARACTERISTIC**



**Fig.2-TYPICAL REVERSE CHARACTERISTICS**



**Fig.3- CURRENT DERATING CURVE**