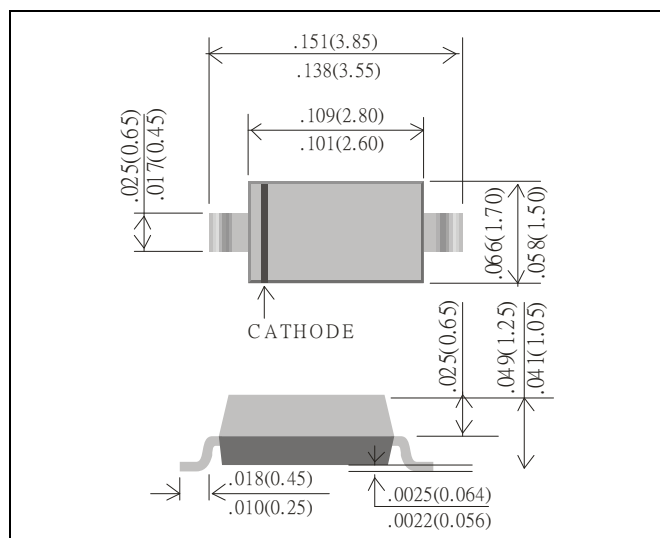


1.0A SURFACE MOUNT SCHOTTKY BARRIER



CASE : SOD-123

DIMENSIONS IN INCHES AND (MILLIMETERS)

FEATURES

- FAST SWITCHING SPEED
- HIGH CONDUCTOR
- SURFACE MOUNT PACKAGE IDEALLY SUITED FOR AUTOMATIC INSERTION
- ELECTRICAL IDENTICAL STANDARD JEDEC
- BOTH PB FREE AND HALOGEN FREE ARE AVAILABLE

MECHANICAL DATA

- CASE : SOD-123, PLASTIC
- TERMINALS : SOLDERABLE PER MIL-STD-202, METHOD208

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.				
PARAMETER		SYMBOL	SS1040G	UNITS
DC BLOCKING VOLTAGE		V_R	40	V
RMS REVERSE VOLTAGE		V_{RMS}	28	V
PEAK REPETITIVE PEAK REVERSE VOLTAGE		V_{RRM}	40	V
Non-REPETITIVE REVERSE VOLTAGE		V_{RM}	40	V
RECTIFIED CURRENT(AVERAGE), HALF WAVE RECTIFICATION WITH RESISTIVE LOAD AND $f \geq 60\text{Hz}$		I_O	1.0	A
NON-REPETITIVE PEAK FORWARD CURRENT $T=1.0 \mu s$		I_{FSM}	25	A
REPETITIVE PEAK FORWARD CURRENT		I_{FRM}	625	mA
POWER DISSIPATION		P_d	400	mW
THERMAL RESISTANCE		$R_{\theta JA}$	350	°C/W
		$R_{\theta JC}$	150	
OPERATING JUNCTION TEMPERATURE		T_J	-65~ +150	°C
STORAGE TEMPERATURE		T_{STG}	-65~ +150	°C
ELECTRICAL CHARACTERISTICS (AT $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)				
PARAMETER		SYMBOL	SS1040G	UNITS
MAXIMUM FORWARD VOLTAGE	$I_F = 0.5A$	V_F	0.46	V
	$I_F = 1A$		0.55	
MAXIMUM DC REVERSE CURRENT	$V_R = 40V$	I_R	0.5	mA
DIODE CAPACITANCE	$V_R = 4V, f = 1 \text{ MHz}$	C_J	100	pF

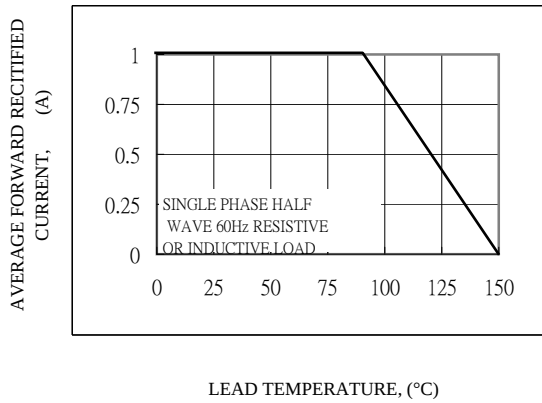


Fig.1-FORWARD CURRENT DERATING CURVE

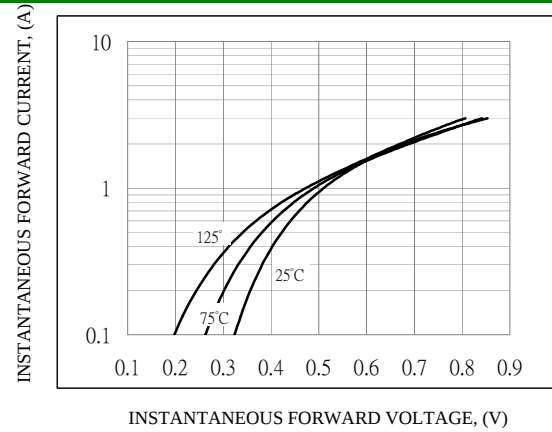


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

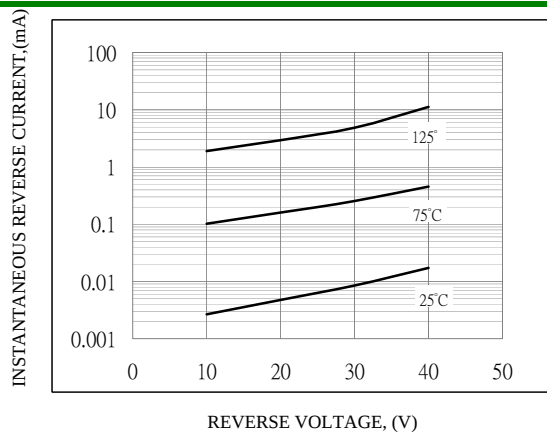


Fig.3-TYPICAL REVERSE CHARACTERISTICS

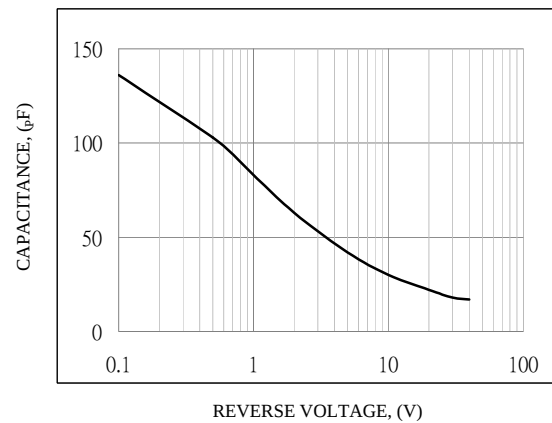


Fig.4-TYPICAL JUNCTION CHARACTERISTIC