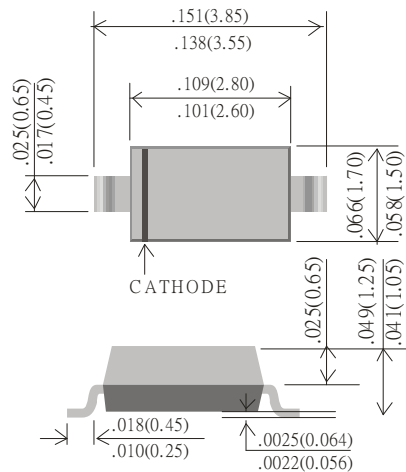


1A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



CASE : SOD-123

DIMENSIONS IN INCHES AND (MILLIMETERS)

FEATURES

- FOR SURFACE MOUNTED APPLICATIONS
- LOW PROFILE PACKAGE
- BUILT-IN STRAIN RELIEF
- EASY PICK AND PLACE
- PLASTIC MATERIAL USED CARRIES UNDERWRITERS
LABORATORY CLASSIFICATION 94 V-0
- EXTREMELY LOW VF
- MAJORITY CARRIER CONDUCTION
- HIGH TEMPERATURE SOLDERING : 260°C/10 SECONDS
AT TERMINALS
- BOTH PB FREE AND HALOGEN FREE ARE AVAILABLE

MECHANICAL DATA

- CASE : MOLDED PLASTIC, JEDEC SOD-123
- TERMINALS : SOLDER PLATED, SOLDERABLE PER
MIL-STD-750, METHOD 2026
- MOUNTING POSITION : ANY

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	SS1100G	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	100	V
MAXIMUM RMS VOLTAGE	V_{RMS}	70	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	100	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT	I_O	1.0	A
PEAK FORWARD SURGE CURRENT, $T=1.0\mu s$	I_{FSM}	40	A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150	°C
OPERATING TEMPERATURE RANGE	T_J	- 55 TO + 150	°C
TYPICAL THERMAL RESISTANCE	$R_{\theta JA}$	400	°C/W
	$R_{\theta JC}$	200	

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

PARAMETER	SYMBOL	SS1100G	UNITS
MAXIMUM FORWARD VOLTAGE	V_F	$I_F=0.5A$ 0.72	V
		$I_F=1A$ 0.85	
MAXIMUM DC REVERSE CURRENT	I_R	40	μA
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C_J	50	PF

NOTES : 1. MEASURED AT 1 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS

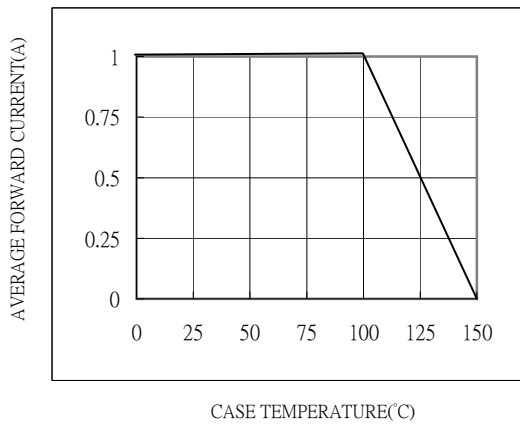


Fig.1-FORWARD CURRENT DERATING CURVE

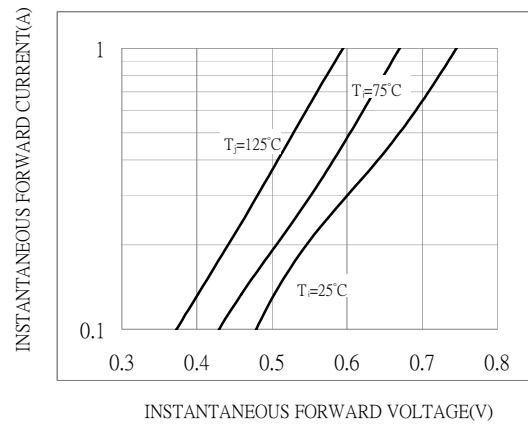


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

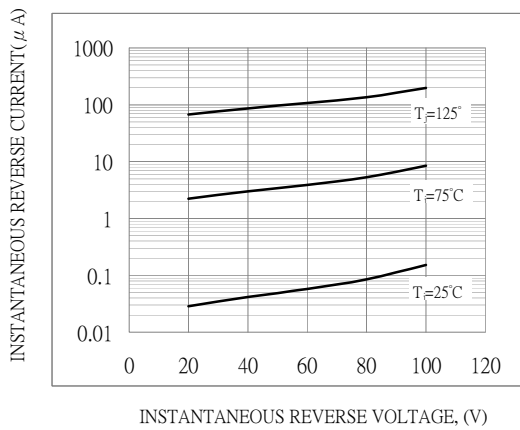


Fig.3-TYPICAL REVERSE CHARACTERISTICS

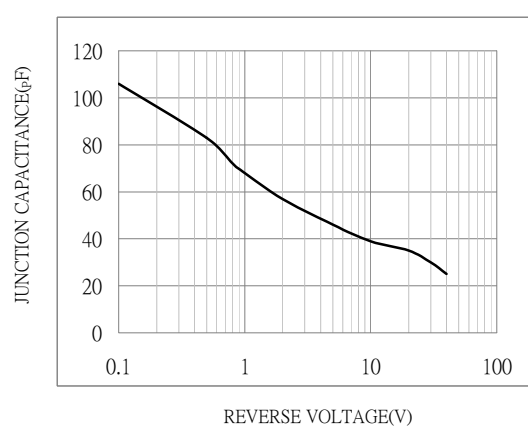


Fig.4-TYPICAL JUNCTION CAPACITANCE