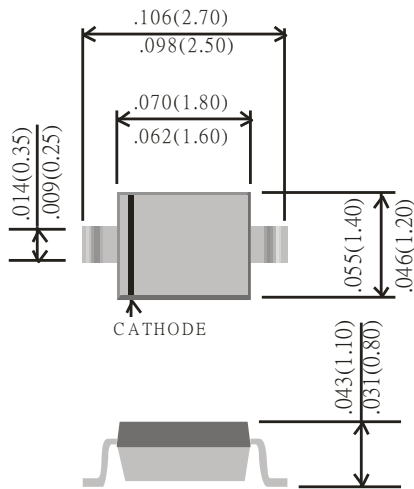


0.5A SURFACE MOUNT SCHOTTKY BARRIER



CASE : SOD-323

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-323, PLASTIC
- TERMINALS : SOLDERABLE PER MIL-STD-202, METHOD 208

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	SS0530WG	UNITS
DC BLOCKING VOLTAGE	V_R	30	V
RMS REVERSE VOLTAGE	V_{RMS}	21	V
PEAK REPETITIVE PEAK REVERSE VOLTAGE	V_{RRM}	30	V
NON-REPETITIVE REVERSE VOLTAGE	V_{RM}	30	V
RECTIFIED CURRENT (AVERAGE), HALF WAVE RECTIFICATION WITH RESISTIVE LOAD AND $f \geq 60\text{Hz}$	I_O	0.5	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	10	A
POWER DISSIPATION	P_d	200	mW
THERMAL RESISTANCE	$R_{\theta JA}$	600	°C/W
	$R_{\theta JC}$	200	
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	SS0530WG	UNITS
MAXIMUM FORWARD VOLTAGE	V_F	$I_F=0.1\text{A}$	0.34
		$I_F=0.5\text{A}$	0.43
MAXIMUM DC REVERSE CURRENT	I_R	100	uA
DIODE CAPACITANCE	C_J	170	pF

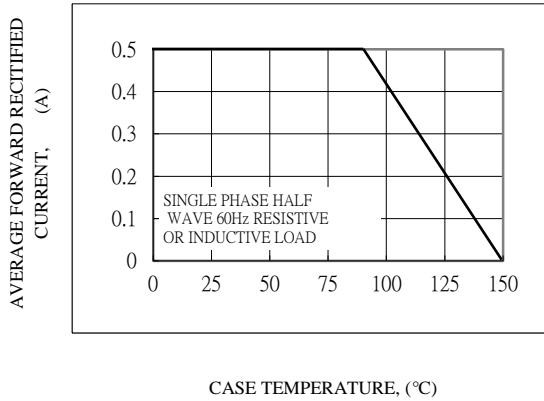


Fig.1-FORWARD CURRENT DERATING CURVE

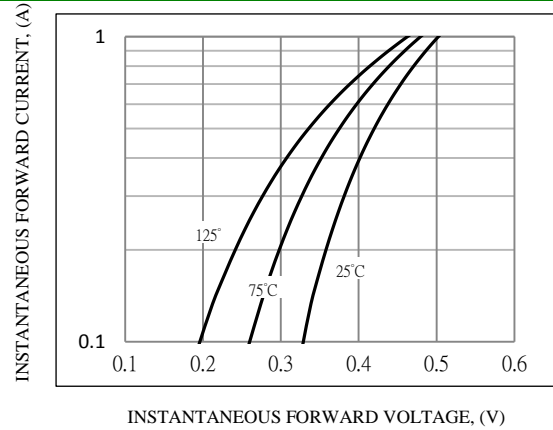


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

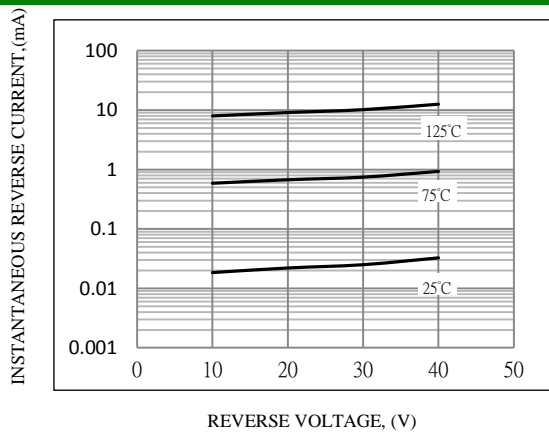


Fig.3-TYPICAL REVERSE CHARACTERISTICS

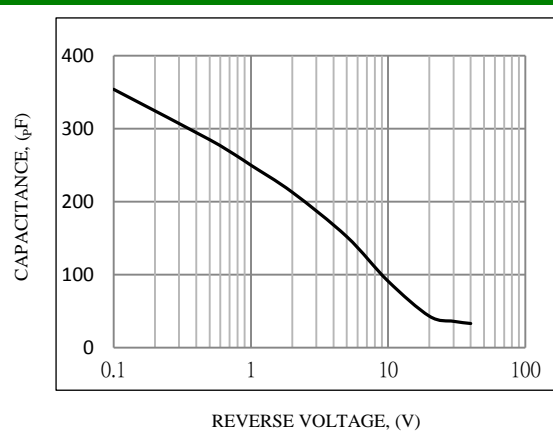


Fig.4-TYPICAL JUNCTION CHARACTERISTIC