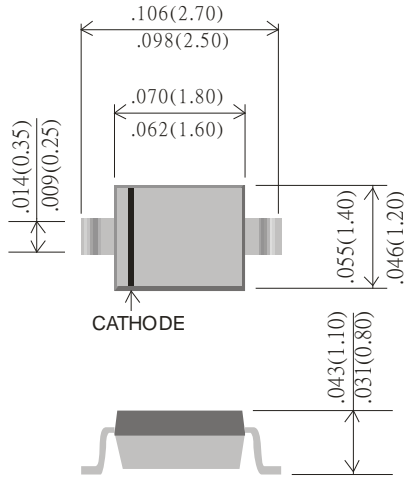


## 400mW SURFACE MOUNT SWITCHING DIODES



CASE : SOD-323

DIMENSIONS IN INCHES AND (MILLIMETERS)

### FEATURES

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

### MECHANICAL DATA

- CASE : SOD-323 PLASTIC CASE
- TERMINALS : SOLDERABLE PER MIL-STD-202, METHOD208

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

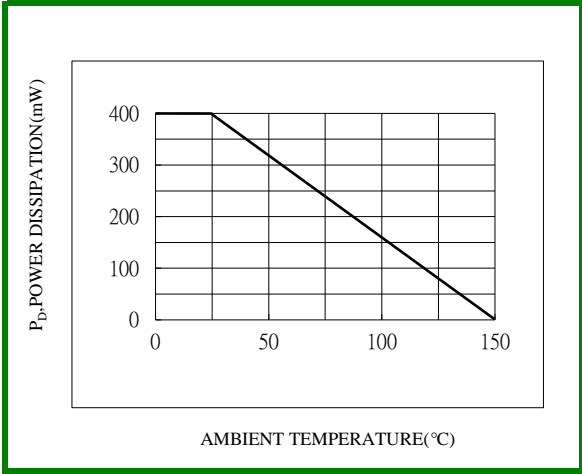
#### RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	1SS355G	UNITS
NON-REPEITITVE PEAK REVERSE VOLTAGE	$V_{RM}$	90	V
REVERSE VOLOTAGE	$V_R$	80	V
REPEITITVE PEAK REVERSE VOLTAGE	$V_{RRM}$		
REPEITITVE PEAK FORWARD CURRENT	$I_{FRM}$	500	mA
PEAK FORWARD SURGE CURRENT $t=1 \mu S$	$I_{FSM}$	4	A
FORWARD CURRENT	$I_F$	250	mA
POWER DISSIPATION	$P_D$	400	mW
TYPICAL THERMAL RESISTANCE	$R_{\theta JA}$	600	°C/W
	$R_{\theta JC}$	200	
OPERATING AND STORAGE TEMPERATURE	$T_j, T_{STG}$	-65 TO +150	°C

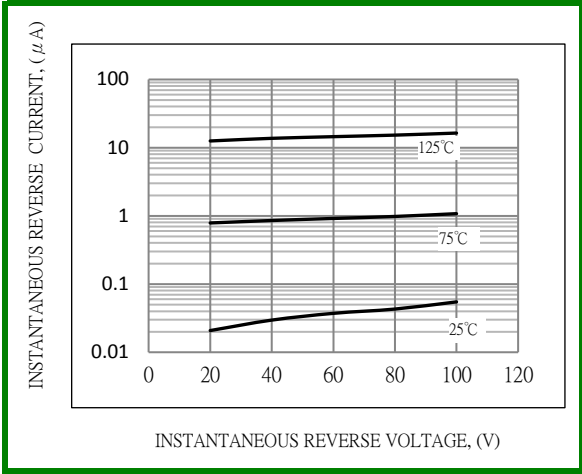
#### ELECTRICAL CHARACTERISTICS (AT $T_A = 25^\circ C$ UNLESS OTHERWISE NOTED)

PARAMETER	SYMBOL	1SS355G	UNITS
MAXIMUM FORWARD VOLTAGE	$V_F$	$I_F=10mA$	0.855
		$I_F=100mA$	1.1
MAXIMUM REVERSE CURRENT	$I_R$	100	nA
MAXIMUM JUNCTION CAPACITANCE	$C_J$	3	pF
MAXIMUM REVERSE RECOVERY TIME (NOTE 1)	$T_{RR}$	4	nS

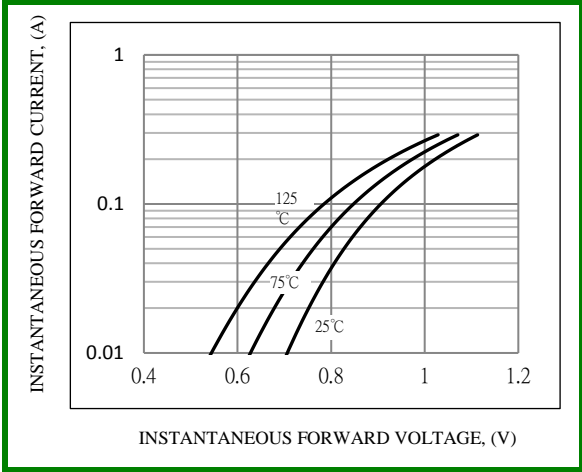
NOTE: 1. FROM  $I_F=10mA$ ,  $I_R=1mA$ ,  $V_R=6V$ ,  $R_L=100\Omega$



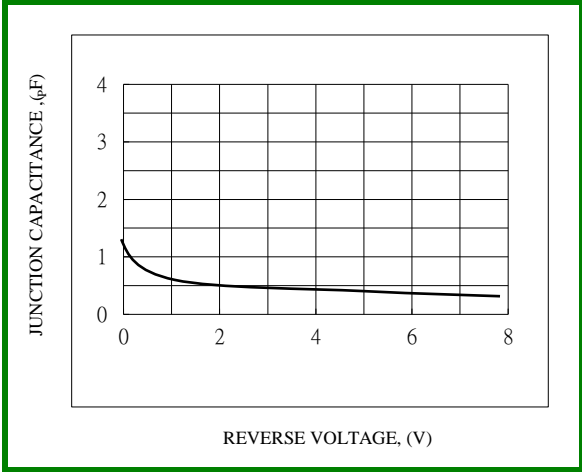
**Fig.3-POWER DERATING CURVE**



**Fig.2 - TYPICAL REVERSE CHARACTERISTICS**



**Fig.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC**



**Fig.4-TYPICAL JUNCTION CAPACITANCE**