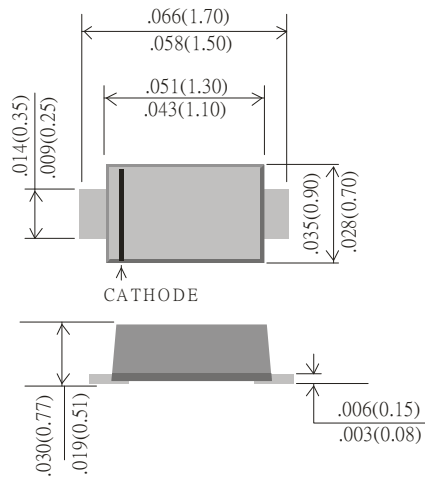


## 200mW SURFACE MOUNT SCHOTTKY DIODES



CASE : SOD-523

DIMENSIONS IN INCHES AND (MILLIMETERS)

### FEATURES

- EXTREMELY FAST SWITCHING SPEED
- BOTH PB FREE AND HALOGEN FREE ARE AVAILABLE

### MECHANICAL DATA

- CASE : SOD-523,PLASTIC
- TERMINALS : SOLDERABLE PER MIL-STD-750,METHOD2026

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.				
PARAMETER		SYMBOL	RB521S-30G	UNITS
REVERSE VOLTAGE (REPETITIVE PEAK)		$V_{RRM}$	35	V
REVERSE VOLTAGE (DC)		$V_R$	30	V
AVERAGE REPETITIVE FORWARD CURRENT		$I_O$	200	mA
FORWARD CURRENT SURGE PEAK (60Hz 1CYC)		$I_{FSM}$	1.0	A
POWER DISSIPATION		$P_D$	200	mW
THERMAL RESISTANCE		$R_{\theta JA}$	500	°C/W
		$R_{\theta JC}$	215	°C/W
JUNCTION TEMPERATURE		$T_J$	150	°C
STORAGE TEMPERATURE		$T_{STG}$	- 55 TO +150	°C
ELECTRICAL CHARACTERISTICS (AT $T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)				
PARAMETER		SYMBOL	RB521S-30G	UNITS
MAXIMUM FORWARD VOLTAGE	$I_F=200\text{mA}$	$V_F$	0.5	V
MAXIMUM REVERSE CURRENT	$V_R=10\text{V}$	$I_R$	30	$\mu\text{A}$
TYPICAL JUNCTION CAPACITANCE	$V_R=0\text{V}, F=1\text{MHz}$	$C_J$	3.0	pF
REVERSE RECOVERY TIME		$T_{rr}$	5.0	nS

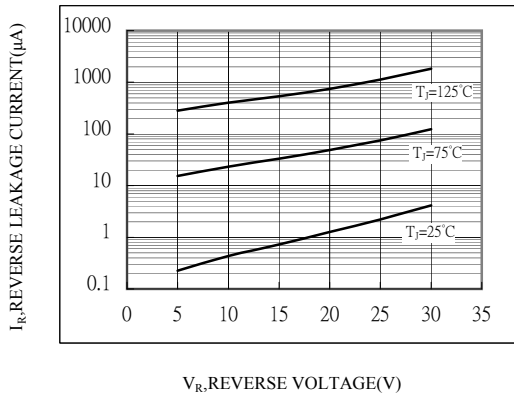


Fig.1-TYPICAL REVERSE LEAKAGE

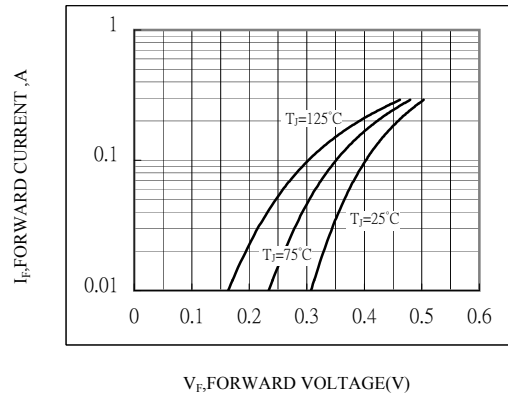


Fig.2-TYPICAL FORWARD VOLTAGE

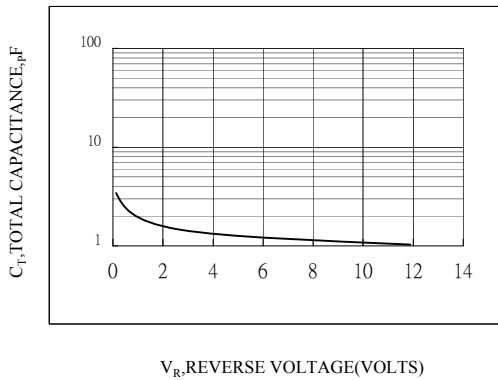


Fig.3- TYPICAL TOTAL CAPACITANCE

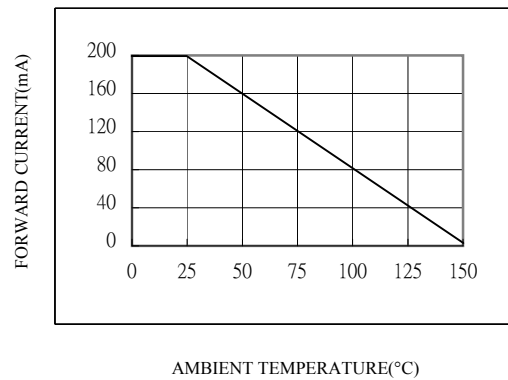


Fig.4-FORWARD CURRENT DERATING