

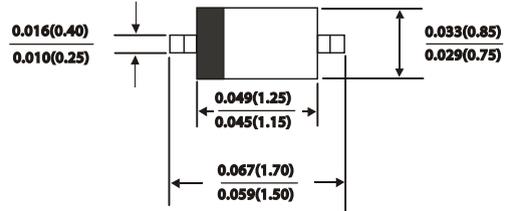


SMALL SIGNAL SCHOTTKY DIODES

SOD-523

FEATURES:

- Low current leakage
- Low forward voltage
- Small outline surface mount SOD-523 PACKAGE
- For low current rectification and high speed switching
- Extremely small surface mounting type
- High reliability



MECHANICAL DATA

Case : SOD-523 molded plastic



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temperature unless otherwise specified.
 Single phase half wave, 60 Hz resistive or inductive load.
 For capacitive load, derate current by 20%.

Characteristic	Symbol	RB520S-30	Units
Reverse voltage	V_R	30	Volts
Maximum average forward rectified current	$I_{(AV)}$	0.2	Amps
Maximum non-repetitive peak forward surge current 8.3ms single half sine-wave superimpose on rated load	I_{FSM}	1.0	Amps
Maximum instantaneous forward voltage $I_F=0.2A$	V_F	0.60	Volts
Maximum reverse current at $V_R=10V$	I_R	1.0	μA
Operating temperature range	T_J	125	$^{\circ}C$
Storage temperature range	T_{Stg}	-40to+125	$^{\circ}C$



FIG.1-TYPICAL FORWARD CHARACTERISTICS

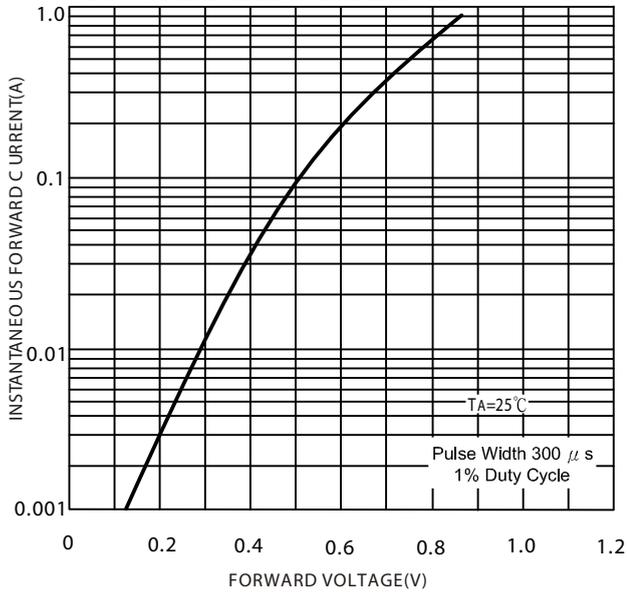


FIG.2-FORWARD CURRENT DERATING CURVE

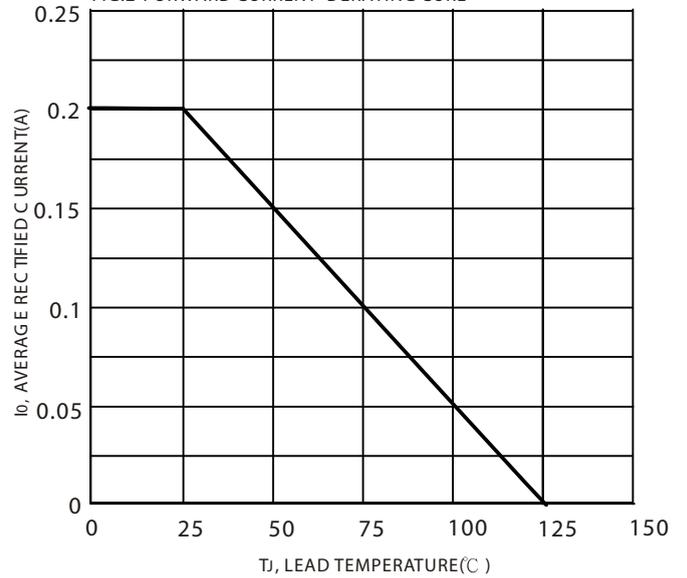


FIG.4-PEAK FORWARD SURGE CURRENT

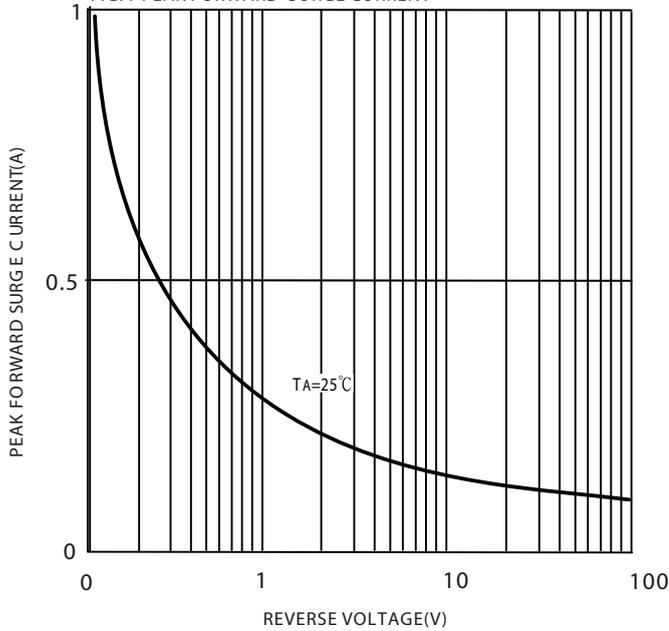
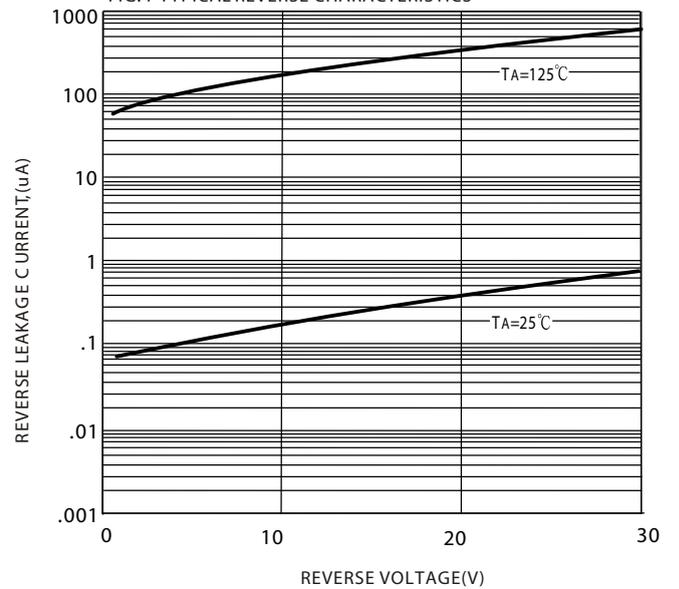


FIG.4-TYPICAL REVERSE CHARACTERISTICS





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