



Halogens free devices

SURFACE MOUNT

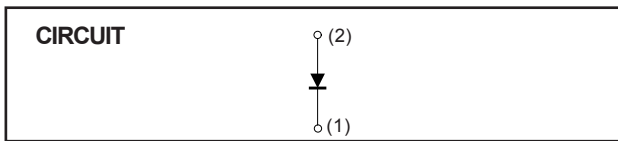
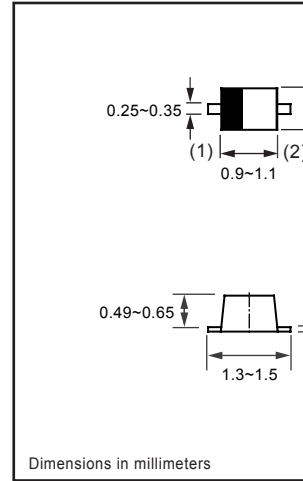
SCHOTTKY BARRIER DIODE
VOLTAGE 30 Volts CURRENT 0.2 Ampere

APPLICATION
* Low current rectification and high speed switching

FEATURE
* Extremely small surface mounting type. (SOD-723)
* $I_o=200\text{mA}$ guaranteed despite size
* Low V_F . ($V_F=0.40\text{V}$ Typ. at 200mA)

CONSTRUCTION
* Silicon epitaxial planar

MARKING
* 3



MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	CH521G-30GP-A
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30
Maximum RMS Voltage	V_{RMS}	21
Maximum DC Blocking Voltage	V_{DC}	30
Maximum Average Forward Rectified Current	I_o	0.2
Peak Forward Surge Current at 8.3 mSec single half sine-wave	I_{FSM}	1.0
Maximum Operating Temperature Range	T_J	+125
Storage Temperature Range	T_{STG}	-40 to +125

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

CHARACTERISTICS	SYMBOL	CH521G-30GP-A
Maximum Instantaneous Forward Voltage at $I_F=200\text{mA}$	V_F	0.50
Maximum Average Reverse Current at $V_R=10\text{V}$	I_R	30.0

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 10 volts.
2. ESD sensitive product handling required.

FIG. 1 - FORWARD CHARACTERISTICS

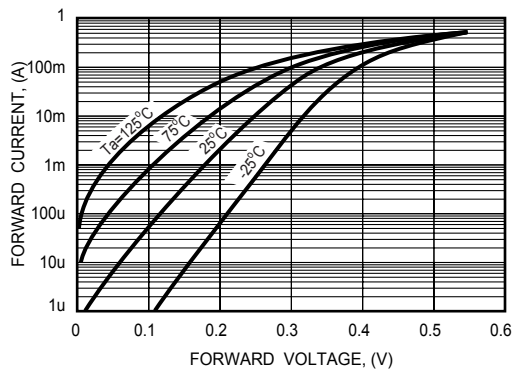


FIG. 2 - REVERSE CHARACTERISTICS

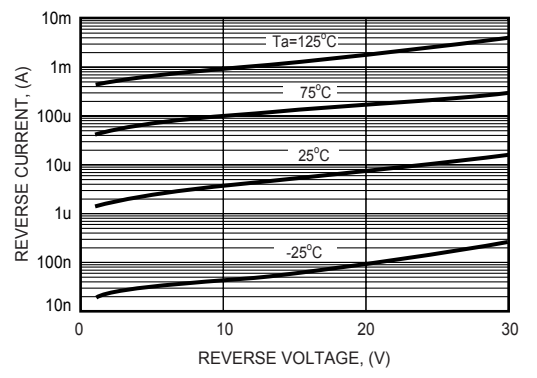


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

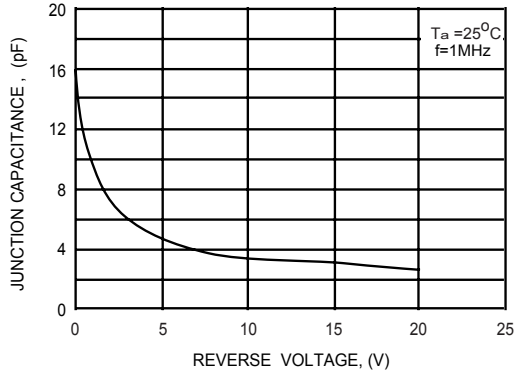
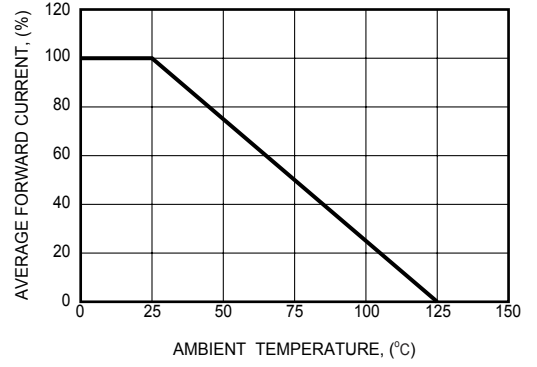


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE



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