



Halogens free devices

SURFACE MOUNT

SCHOTTKY BARRIER DIODE

VOLTAGE 30 Volts CURRENT 0.2 Ampere

APPLICATION

* Low power rectification and high speed switching

FEATURE

- * Extremely small surface mounting type. (FBPD-923)
- * Low IR. (IR=0.1uA Typ.)
- * High reliability
- * Lead free devices

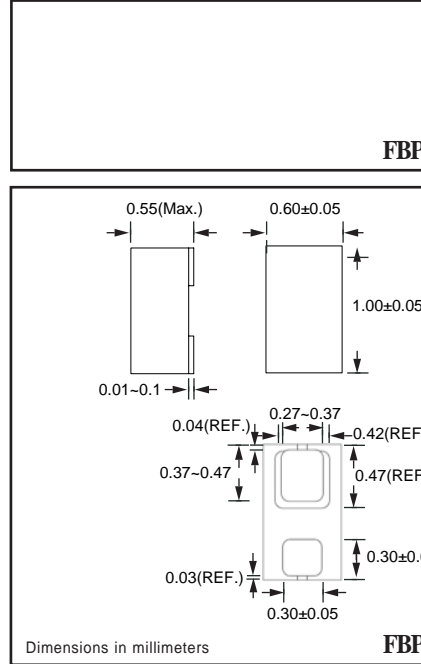
CONSTRUCTION

* Silicon epitaxial planar

MARKING

* B

CIRCUIT



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	CH520G2-30GP
Maximum Recurrent Peak Reverse Voltage	VRRM	30
Maximum RMS Voltage	VRMS	21
Maximum DC Blocking Voltage	VDC	30
Maximum Average Forward Rectified Current	Io	0.2
Peak Forward Surge Current at 8.3 mSec single half sine-wave	IFSM	1.0
Typical Junction Capacitance between Terminal (Note 1)	CJ	6.0
Maximum Operating Temperature Range	TJ	+125
Storage Temperature Range	TSTG	-40 to +125

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	CH520G2-30GP
Maximum Instantaneous Forward Voltage at IF= 200mA	VF	0.60
Maximum Average Reverse Current at VR= 10V	IR	1.0

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 10.0 volts.
 2. ESD sensitive product handling required.

FIG. 1 - FORWARD CHARACTERISTICS

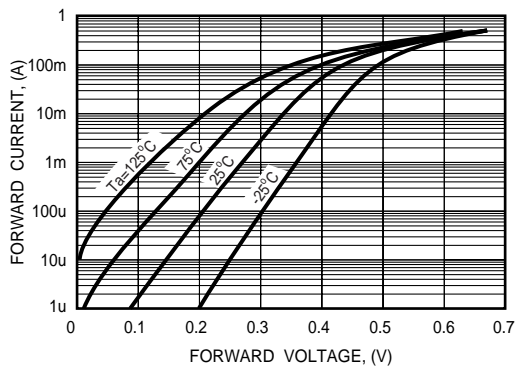


FIG. 2 - REVERSE CHARACTERISTICS

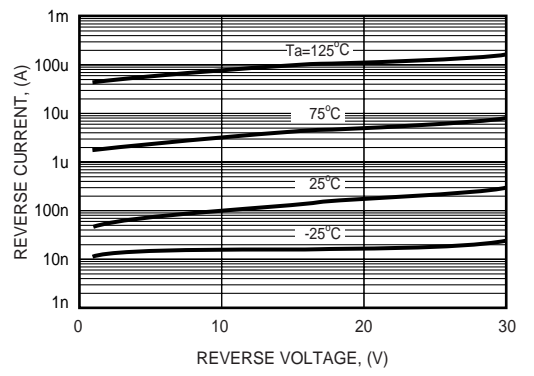


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

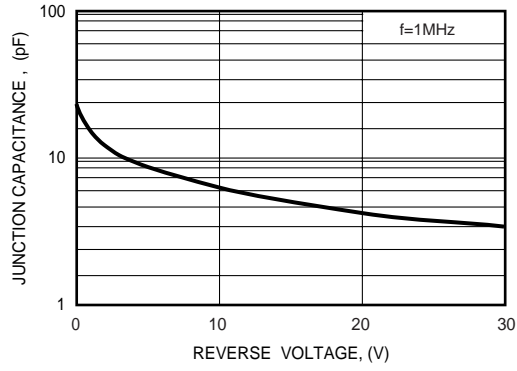
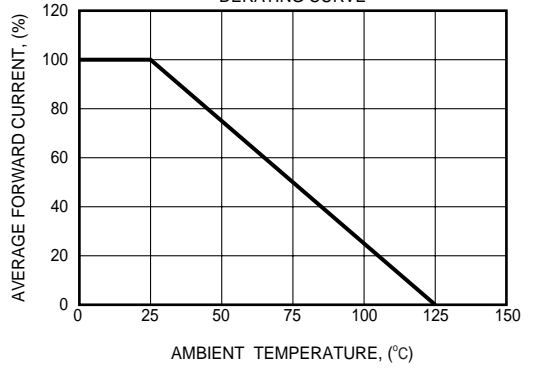


FIG. 4 - TYPICAL FORWARD CURRENT DERATING CURVE



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