CHENMKO ENTERPRISE CO.,LTD

MMBL914HGP

Halogens free devices

SURFACE MOUNT
SWITCHING DIODE
VOLTAGE 100 Volts CURRENT 0.2 Ampere

APPLICATION
* Ultra high speed switching

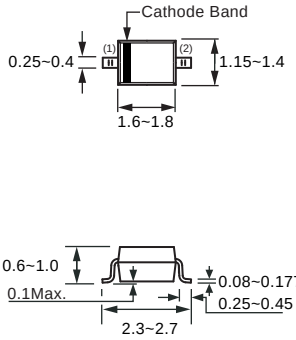
FEATURE
* Small surface mounting type. (SC-76/SOD-323)
* High speed. (T_{RR}=1.5nSec Typ.)
* Suitable for high packing density.
* Maximum total power disspation is 225mW.
* Peak forward current is 450mA.
* Lead free devices

CONSTRUCTION
* Silicon epitaxial planar

MARKING
* 4D

CIRCUIT

SC-76/SOD-323



Dimensions in millimeters

SC-76/SOD-323

MAXIMUM RATINGES (At T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	MMBL914HGP	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	Volts
Maximum RMS Voltage	V_{RMS}	70	Volts
Maximum DC Blocking Voltage	V_{DC}	75	Volts
Maximum Average Forward Rectified Current	I_O	0.2	Amps
Peak Forward Surge Current at 1uSec.	I_{FSM}	2.0	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	4.0	pF
Maximum Reverse Recovery Time (Note 2)	T_{RR}	4.0	nSec
Maximum Operating Temperature Range	T_J	+150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

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

CHARACTERISTICS	SYMBOL	MMBL914HGP	UNITS
Maximum Instantaneous Forward Voltage at I_F= 10mA	V_F	1.0	Volts
Maximum Average Reverse Current at V_R= 75V	I_R	5.0	uAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 0 volts.
2. Measured at applied froward current of 10mA and reverse voltage of 6.0 volts.
3. ESD sensitive product handling required.

RATING CHARACTERISTIC CURVES (MMBL914HGP)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURRENT

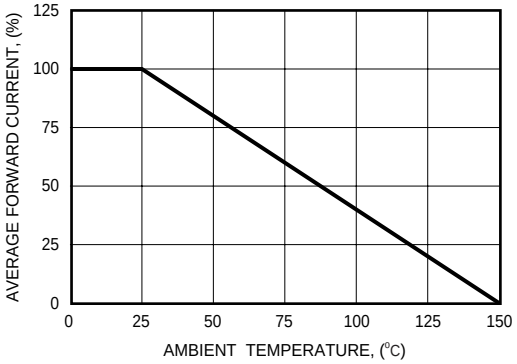


FIG. 2 - FORWARD CHARACTERISITICS

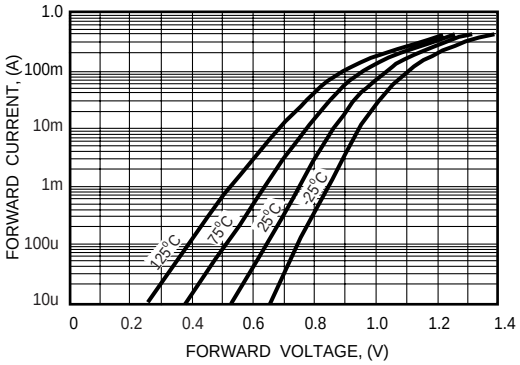


FIG. 3 - REVERSE CHARACTERISTICS

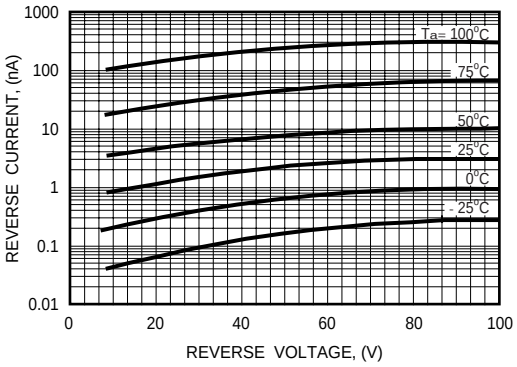


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

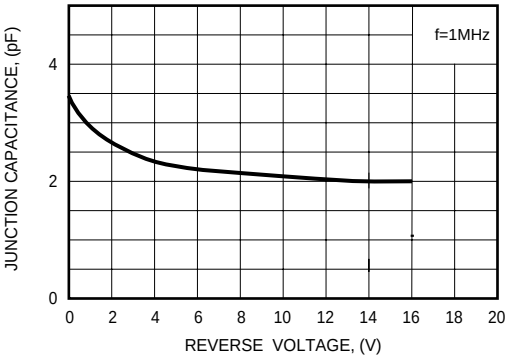


FIG. 5 - REVERSE RECOVERY TIME

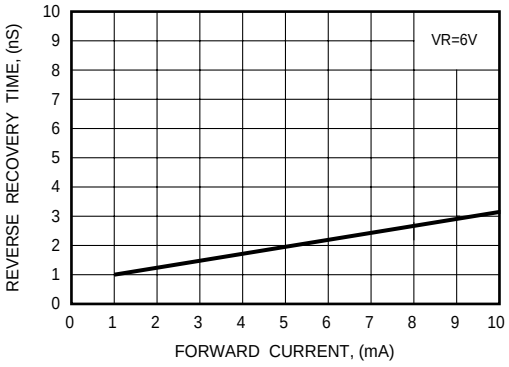


FIG. 6 - REVERSE RECOVERY TIME MEASUREMENT CIRCUIT