CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE 45 Volts CURRENT 100 mAmpere

CH145SDWPT

Lead free devices

APPLICATION

* Ultra high speed switching

FEATURE

* Small surface mounting type. (SC-74/SOT-457)
* High speed. (T_{RR}=10nSec Typ.)
* Suitable for high packing density.
* Maximum total power disspation is 225mW.

CONSTRUCTION

* Silicon epitaxial planar

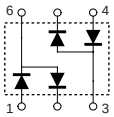
MARKING

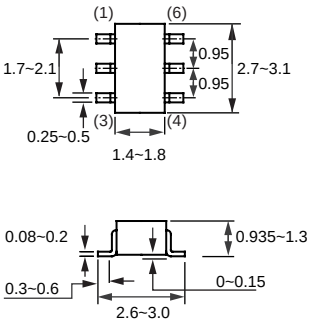
* DM2



SC-74/SOT-457

CIRCUIT





Dimensions in millimeters

SC-74/SOT-457

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

RATINGS	SYMBOL	CH145SDWPT	UNITS
Maximum Non-Repetitive Peak Reverse Voltage	V_{RM}	45	Volts
Maximum RMS Voltage	V_{RMS}	32	Volts
Maximum Repetitive Peak Reverse and DC Blocking Voltage	V_{RRM}, V_{DC}	45	Volts
Forward Continuous Current	I_{FM}	100	mAmps
Non-Repetitive Peak Forward Surge Current at 8.3mSec	I_{FSM}	1.0	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	6.0	pF
Total Power Disspation	P_d	225	mW
Thermal Resistance Junction to Ambient (Note 2)	$R_{\theta JA}$	444	°C/W
Maximum Operating and Storage Temperature Range	T_J,T_{STG}	-65 to +125	°C

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

CHARACTERISTICS	SYMBOL	CH145SDWPT	UNITS
Maximum Instantaneous Forward Voltage at 10mA	V_F	450	mVolts
Maximum Average Reverse Current at 10V	I_R	1.0	uAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 0 volts.
2. Device mounted on FR-4 by 1 inch X 0.85 inch X 0.062 inch
3. ESD sensitive product handling required.

2004-06

RATING CHARACTERISTIC CURVES (CH145SDWPT)

FIG. 1 - TYPICAL POWER DERATING CURVE

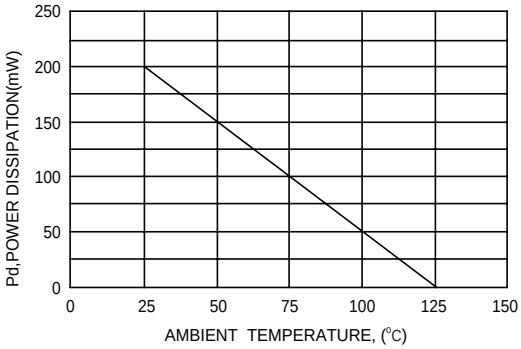


FIG. 2 - FORWARD CHARACTERISTICS

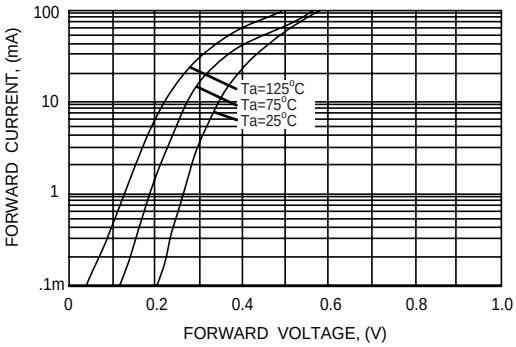


FIG. 3 - REVERSE CHARACTERISTICS

