



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SURFACE MOUNT SWITCHING DIODE

VOLTAGE 80 Volts CURRENT 0.1 Ampere

CHR12DPT

APPLICATION

- * Bias circuit.
- * Protection circuits.

FEATURE

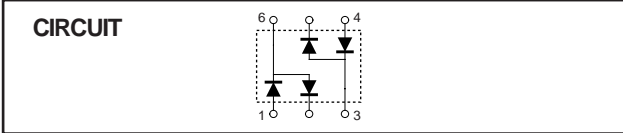
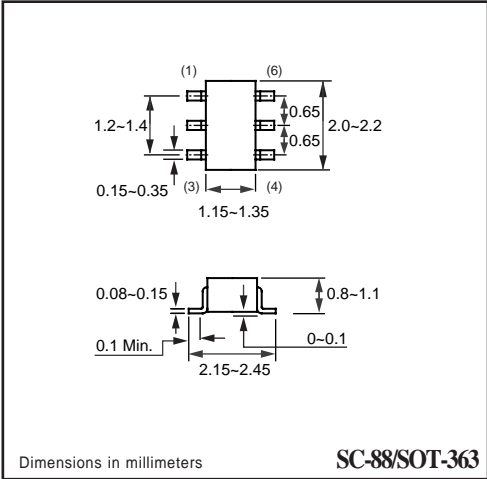
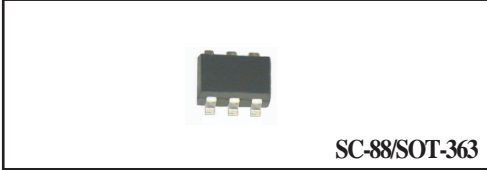
- * Small surface mounting type. (SC-88/SOT-363)
- * Two diode elements are connected in series (VFX2) per circuit.
- * Maximum total power dissipation is 200mW.
- * Peak forward current is 200mA.

CONSTRUCTION

- * Silicon epitaxial planar

MARKING

- * 9D



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

RATINGS	SYMBOL	CHR12DPT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	80	Volts
Maximum RMS Voltage	V _{RMS}	56	Volts
Maximum DC Blocking Voltage	V _{DC}	80	Volts
Maximum Average Forward Rectified Current	I _O	0.1	Amps
Peak Forward Surge Current at 1 uSec	I _{FSM}	0.3	Amps
Typical Junction Capacitance between Terminal (Note 1)	C _J	2.0	pF
Maximum Operating Temperature Range	T _J	+150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

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

CHARACTERISTICS	SYMBOL	CHR12DPT	UNITS
Maximum Instantaneous Forward Voltage at I _F = 100mA	V _F	1.20	Volts
Maximum Average Reverse Current at V _R = 80V	I _R	0.1	uAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 6.0 volts.
2. ESD sensitive product handling required.

RATING CHARACTERISTIC CURVES (CHR12DPT)

FIG. 1 - FORWARD CHARACTERISTICS

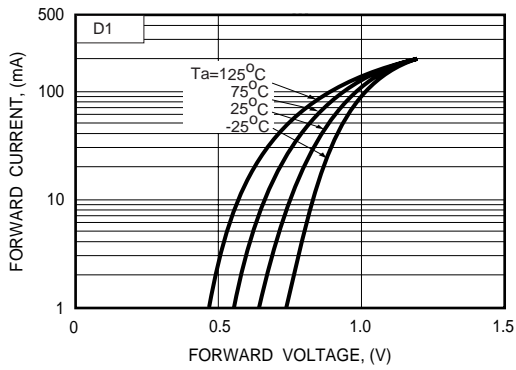


FIG. 2 - FORWARD CHARACTERISTICS

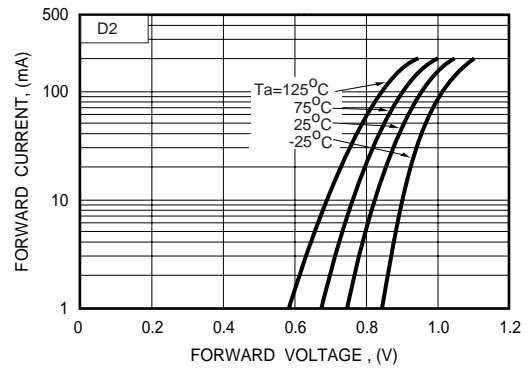


FIG. 3 - REVERSE CHARACTERISTICS

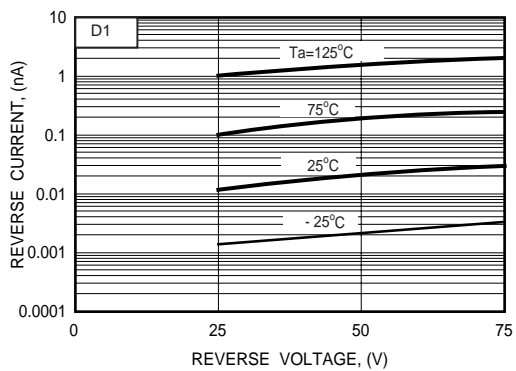


FIG. 4 - REVERSE CHARACTERISTICS

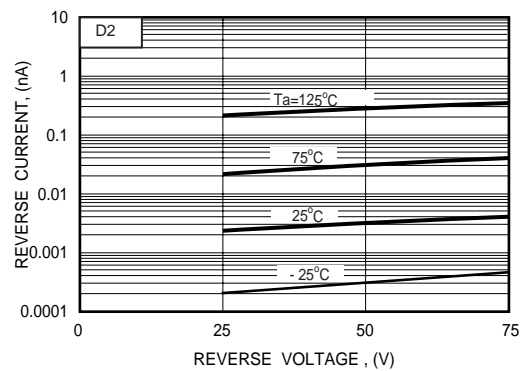


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

