CHENMKO ENTERPRISE CO.,LTD

CH461FGP

SURFACE MOUNT
SCHOTTKY BARRIER DIODE
VOLTAGE 25 Volts CURRENT 0.7 Ampere

Halogens free devices

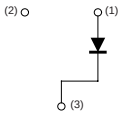
APPLICATION
* Low power rectification for switching power supply

FEATURE
* Small surface mounting type. (SC-70/SOT-323)
* Ultra low VF. (VF=0.45V Typ. at 0.7A)
* IF=0.7A guaranteed desite the size

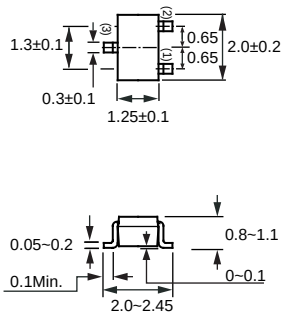
CONSTRUCTION
* Silicon epitaxial planar

MARKING
* 3F

CIRCUIT



SC-70/SOT-323



Dimensions in millimeters

SC-70/SOT-323

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

RATINGS	SYMBOL	CH461FGP	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	25	Volts
Maximum RMS Voltage	V_{RMS}	18	Volts
Maximum DC Blocking Voltage	V_{DC}	20	Volts
Maximum Average Forward Rectified Current	I_O	0.7	Amps
Peak Forward Surge Current at 8.3 mSec single half sine-wave	I_{FSM}	3.0	Amps
Typical Junction Capacitance between Terminal (Note 1)	C_J	20	pF
Maximum Operating Temperature Range	T_J	+125	°C
Storage Temperature Range	T_{STG}	-40 to +125	°C

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

CHARACTERISTICS	SYMBOL	CH461FGP	UNITS
Maximum Instantaneous Forward Voltage at I_F= 700mA	V_F	0.49	Volts
Maximum Average Reverse Current at V_R= 20V	I_R	200	uAmps

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

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RATING CHARACTERISTIC CURVES (CH461FGP)

FIG. 1 - FORWARD CHARACTERISTICS

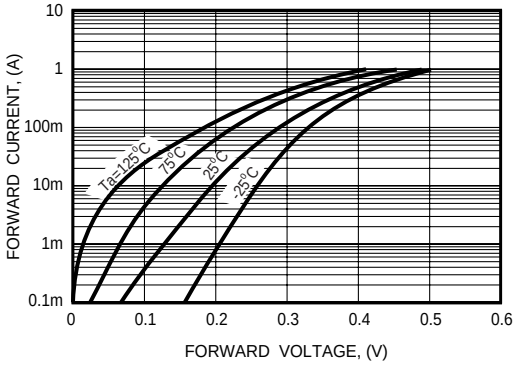

FIG. 2 - REVERSE CHARACTERISTICS

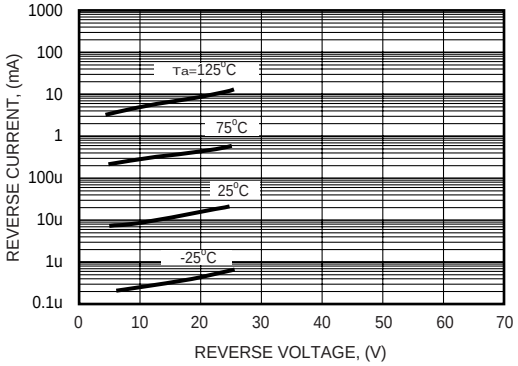

FIG. 3 - TYPICAL JUNCTION CAPACITANCE

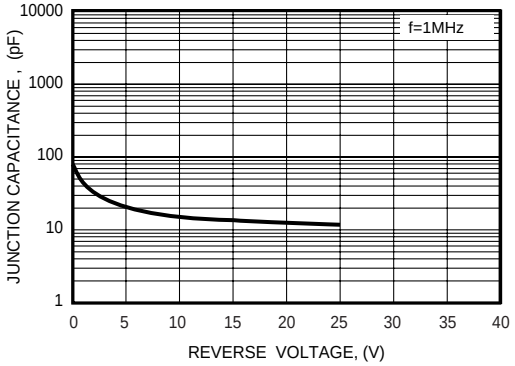

FIG. 4 - FORWARD POWER DISSIPATION CHARACTERISTICS

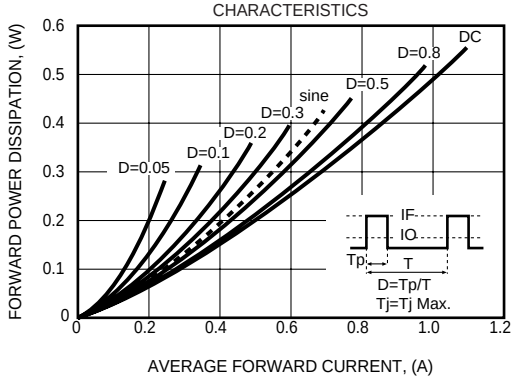

FIG. 5 - DERATING CURVE BY AMBIENT
(ON GLASS EPOXY PCBS)