CHENMKO ENTERPRISE CO.,LTD

CHSD04DHGP-A

Halogens free devices

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 40 Volts CURRENT 350 mAmperes

APPLICATION

* Ultra high speed switching

FEATURE

* Small surface mounting type. (SC-76/SOD-323)
* High speed. (T_{RR}=10nSec Typ.)
* Maximum total power disspation is 200mW.

CONSTRUCTION

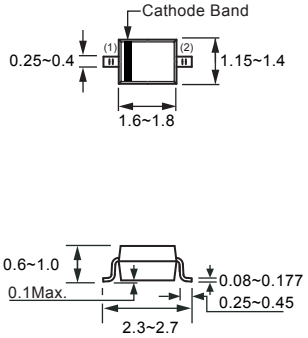
* Silicon epitaxial planar

CIRCUIT





SC-76/SOD-323



Dimensions in millimeters

SC-76/SOD-323

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

RATINGS	SYMBOL	CHSD04DHGP-A	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	Volts
Maximum RMS Voltage	V_{RMS}	28	Volts
Maximum DC Blocking Voltage	V_{DC}	40	Volts
Forward Continuous Current	I_{FM}	350	mAmps
Peak Forward Surge Current 1.0 S single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	1.5	Amps
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	625	°C / W
Total Capacitance (Note 2)	C_T	28	pF
Reverse Recovery Time at IF=IR=200mA , Irr=20mA	T_{rr}	10	nS
Operating Temperature Range	T_J	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +125	°C

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

CHARACTERISTICS		SYMBOL	CHSD04DHGP-A	UNITS
Maximum Instantaneous Forward Voltage	@ I_F = 20mA	V_F	370	mVolts
	@ I_F = 200mA		600	mVolts
Maximum Average Reverse Current at Rated DC Blocking Voltage		I_R	4.8	uAmps

NOTES : 1. Thermal Resistance (Junction to Lead) : PC Board Mounted on 0.2 X 0.2" (5 X 5mm) copper pad area.
2. Measured at 1.0 MHz and applied reverse voltage of 0 volts.

2014-09

RATING CHARACTERISTIC CURVES (CHSD04DHGP-A)

FIG. 1 - TYPICAL POWER DERATING CURVE

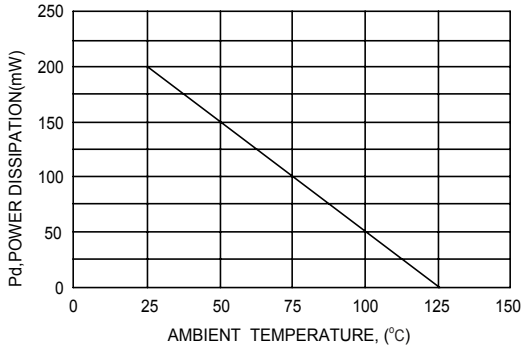


FIG. 2 - FORWARD CHARACTERISTICS

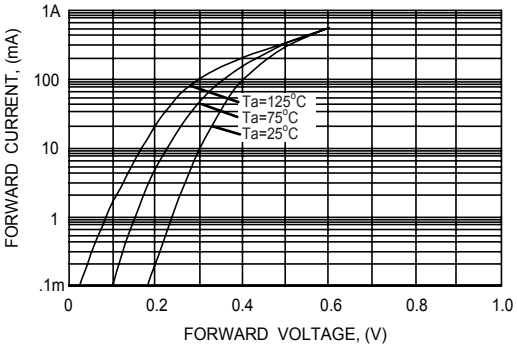
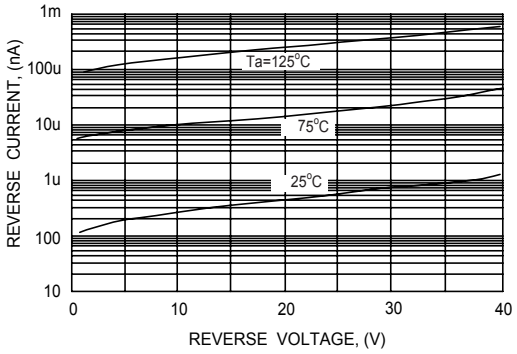


FIG. 3 - REVERSE CHARACTERISTICS



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SURFACE MOUNT

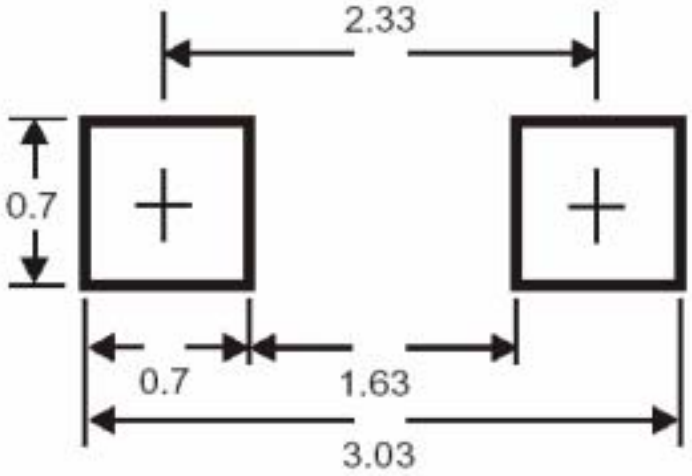
RECOMMENDED FOOT PRINT

all dimensions in mm

SC-76

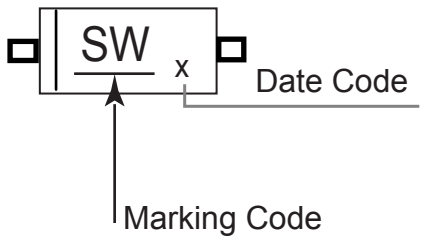
SOD-323

SC-76/SOD-323



The Marking and Part No. for CHSD04DHGP-A (SC-76)

Marking:



Date Code Standard （二年1個週期）

Date Code	A	B	C	D	E	F	G	H	J	K	L	M
2015Year	JAN.	FEB.	MAR.	APR	MAY	JUNE	JULY	AUG.	SEP.	OCT	NOV.	DEC.

Date Code	N	P	Q	R	S	T	U	V	W	X	Y	Z
2014Year	JAN.	FEB.	MAR.	APR	MAY	JUNE	JULY	AUG.	SEP.	OCT	NOV.	DEC.

CUSTOMER :	APPROVED :	CHENMKO LTD.
APPROVED :	CHECKED :	
CHECKED :	DRAWN :	DRAWING No. :