



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

SURFACE MOUNT ZENER
SILICON PLANAR POWER ZENER DIODES
VOLTAGE RANGE 260V TO 310V

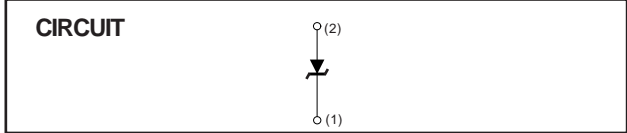
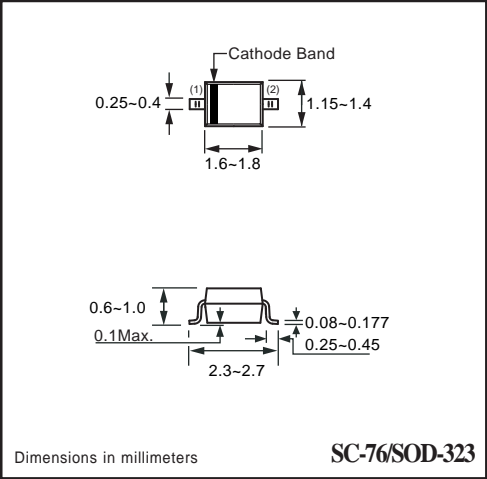
CHHZ260GP
THRU
CHHZ310GP

FEATURE

- * High temperature soldering type.
- * ESD rating of class 3(>16 kV) per human body model.
- * Silicon planar zener diodes.
- * Silicon-oxide passivated junction.
- * Low temperature coefficient voltage
- * 200 mW Rating on FR-4 or FR-5 Board

MECHANICAL

- * Void-free, Transfer-molded, Thermosetting plastic case
- * SC-76/SOD-323 Packaging.
- * Cathode indicated by polarity band.
- * Mounting position: Any.



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

RATINGS	SYMBOL	VALUE	UNITS
Zener Current (see Table "Characteristics")	-	-	-
Max. Steady State Power Dissipation @ $T_A=25^\circ\text{C}$	P_D	200	mW
Max. Operating Temperature Range	T_J	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

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

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	-	-	550	$^\circ\text{C/W}$
Max. Instantaneous Forward Voltage at $I_F = 10\text{mA}$	V_F	-	-	1.1	Volts

- NOTES :
1. The zener impedance is derived from 1KHz AC voltage, which results when an AC current having an RMS value equal to 10% of DC zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK} . Zener impedance is measured at two points to insure a sharp knee on the breakdown curve to eliminate unstable units.
 2. Valid provided that electrodes at distance of 10mm from case are kept ambient temperature.
 3. Measured under thermal equilibrium and DC test conditions.
 4. The rating listed in the electrical characteristics table is maximum peak, non-repetitive, reverse surge current of 1/2 square wave or equivalent sine wave pulse of 1/120 second duration superimposed on the test current, I_{ZT} , per JEDEC registration.

2004-04

ELECTRICAL CHARACTERISTICS (CHHZ260GP THRU CHHZ310GP)

TYPE	Zener voltage V _Z (V) @ I _{ZT}			Test current	Maximum Zener impedance			Maximum reverse leakage current		Type temperature coefficient at T _A = 25°C θ _{VZ} (%/°C)	Maximum regulator current at T _A = 50°C I _{ZM} (mA)
	Min	Nom	Max		Z _{ZT} at I _{ZT} (Ω)	Z _{ZK} (Ω)	at I _{ZK} (mA)	I _R (μA)	at V _R (V)		
	Volts	Volts	Volts	I _{ZT} (mA)							
CHHZ260GP	250	260	270	0.1	5	250	0.005	1.0	215	0.1	1.25
CHHZ270GP	260	270	280	0.1	5	250	0.005	1.0	215	0.1	1.20
CHHZ280GP	270	280	290	0.1	5	250	0.005	1.0	215	0.1	1.15
CHHZ290GP	280	290	300	0.1	5	250	0.005	1.0	240	0.1	1.10
CHHZ300GP	290	300	310	0.1	5	250	0.005	1.0	240	0.1	1.05
CHHZ310GP	300	310	320	0.1	5	250	0.005	1.0	240	0.1	1.00