



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 40 Volts CURRENT 2.0 Amperes

CHSDBDJGP-A

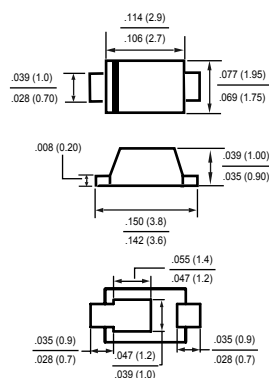
FEATURES

- * Plastic package has Underwriters Laboratory
- Flammability Classification 94V-0
- * For surface mounted applications
- * Low profile package
- * Built-in strain relief
- * Metal silicon junction, majority carrier conduction
- * Low power loss, high efficiency
- * High current capability, low forward voltage drop
- * High surge capability
- * For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

CIRCUIT



SOD-123J



Dimensions in inches and (millimeters)

SOD-123J

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

RATINGS	SYMBOL	CHSDBDJGP-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
Maximum Average Forward Rectified Current	I_O	2.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	40	Amps
Typical Junction Capacitance (Note 1)	C_J	200	pF
Typical Thermal Resistance	$R_{\theta JL}$	65	$^{\circ}\text{C} / \text{W}$
Operating Temperature Range	T_J	-65 to +125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150	$^{\circ}\text{C}$

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

CHARACTERISTICS	SYMBOL	CHSDBDJGP-A	UNITS
Maximum Instantaneous Forward Voltage at 2.0 A DC	V_F	0.5	Volts
Maximum Average Reverse Current at $V_R = 40\text{V}$	I_R	300	μAmps

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

2014-09

RATING CHARACTERISTIC CURVES (CHSDBDJGP-A)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

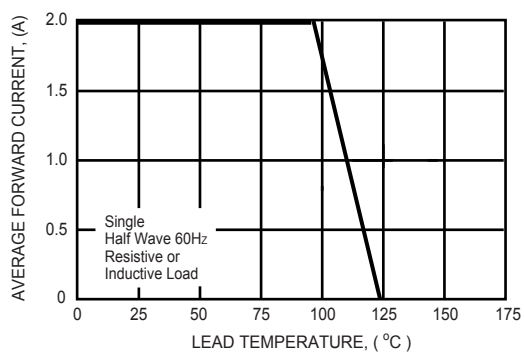


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

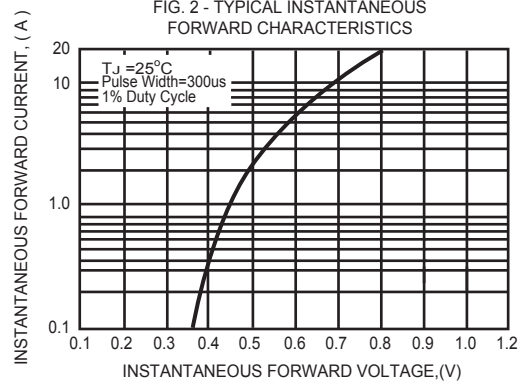


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

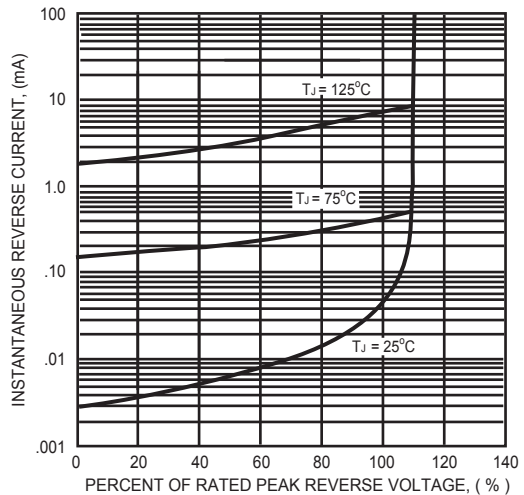


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

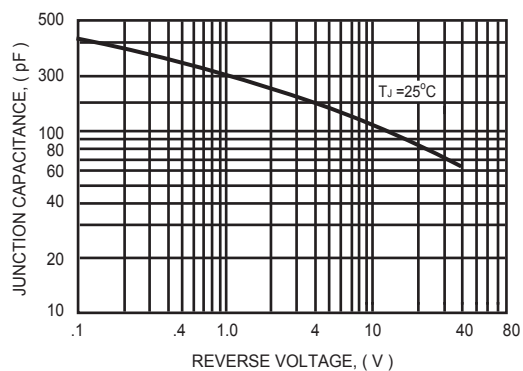
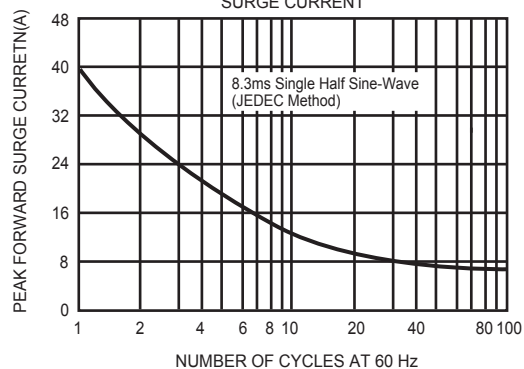


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





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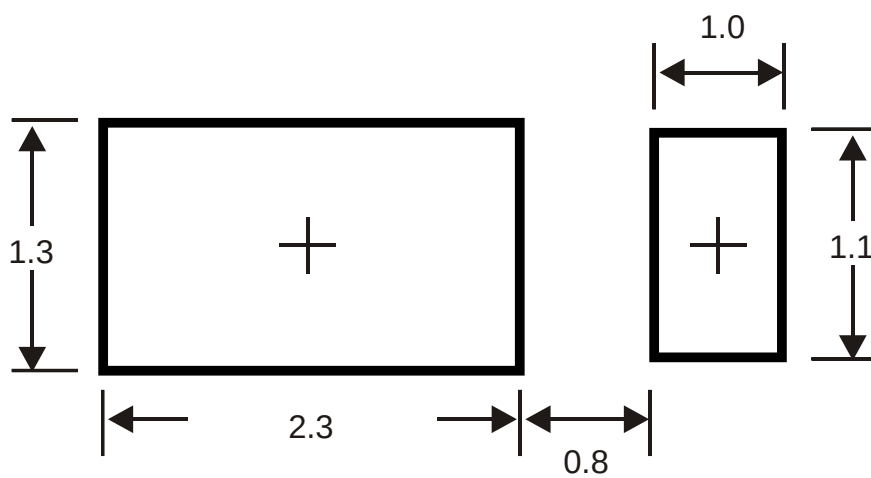
SURFACE MOUNT

RECOMMENDED FOOT PRINT

all dimensions in mm

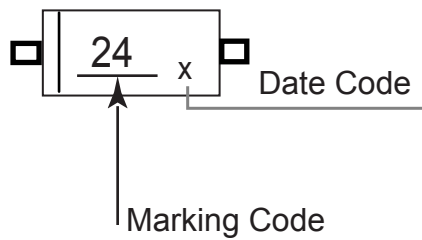
SOD-123J

SOD-123J



The Marking and Part No. for CHSDBDJGP-A
(SOD-123J)

Marking:



Date Code Standard

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 : DANY	 CHENMKO LTD.
APPROVED :	CHECKED : ANGEL	
CHECKED :	DRAWN : JASON	
		DRAWING No. :