CHENMKO ENTERPRISE CO.,LTD

CHSDBDAGP-A

Halogens free devices

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 40 Volts CURRENT 2.0 Amperes

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
* High temperature soldering guaranteed : 260°C/10 seconds at terminals

* Low VF Products

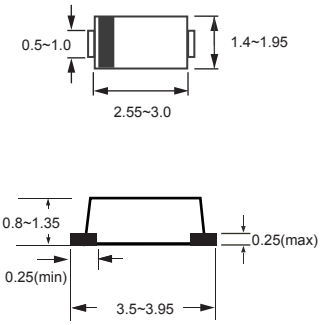
MECHANICAL DATA

Case: JEDEC SOD-123S molded plastic

Polarity: Color band denotes cathode end



SOD-123S



Dimensions in millimeters

SOD-123S

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

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

RATINGS	SYMBOL	CHSDBDAGP-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 2)	C_J	200	pF
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	85	°C / W
Operating Temperature Range	T_J	-65 to +125	°C
Storage Temperature Range	T_{STG}	-65 to +150	°C

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

CHARACTERISTICS		SYMBOL	CHSDBDAGP-A	UNITS
Maximum Instantaneous Forward Voltage	I_F=0.7A @T_A =25°C	V_F	0.40	Volts
	I_F=1.0A @T_A =25°C		0.45	Volts
	I_F=2.0A @T_A =25°C		0.50	Volts
Maximum Average Reverse Current	V_R=30V @T_A =25°C	I_R	50	uAmps
	V_R=40V @T_A =25°C		0.1	mAmps
	V_R=40V @T_A =100°C		10	mAmps

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 4.0 volts.

2015-05

RATING CHARACTERISTIC CURVES (CHSDBDAGP-A)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

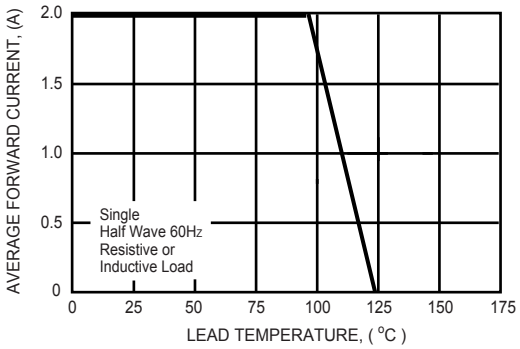


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

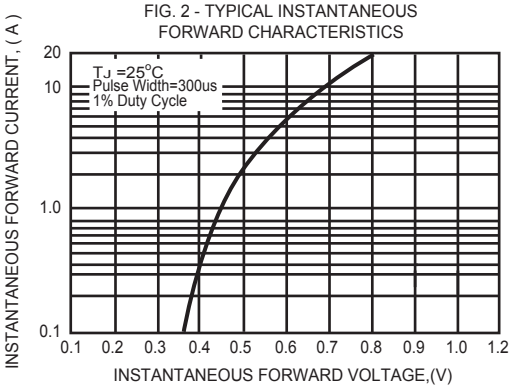


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

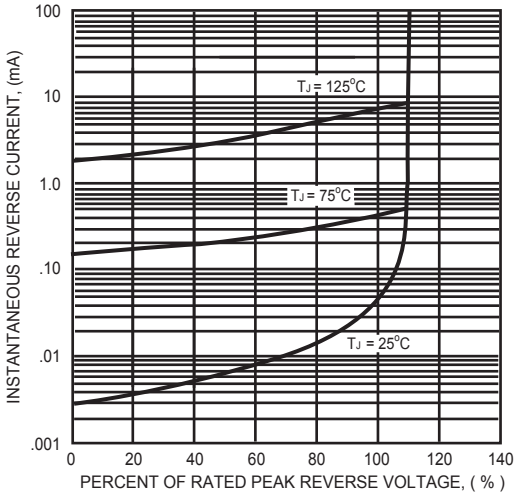


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

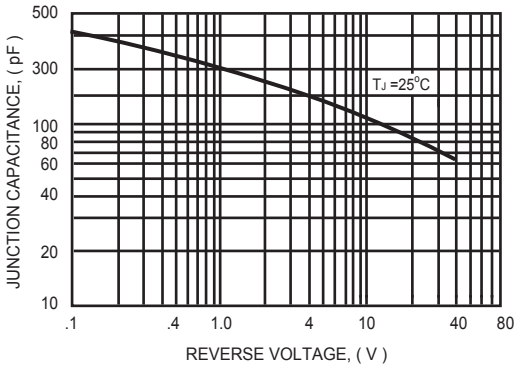
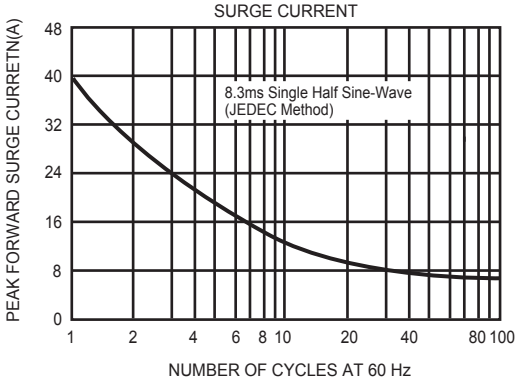


FIG. 5 - MAXIMUM NON-REPETIVE FORWARD SURGE CURRENT



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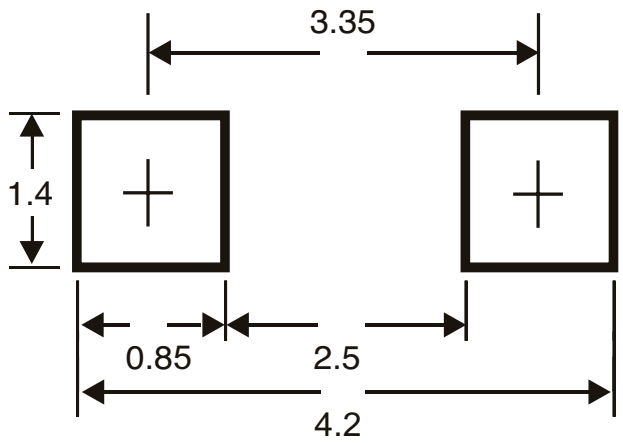
SURFACE MOUNT

RECOMMENDED FOOT PRINT

all dimensions in mm

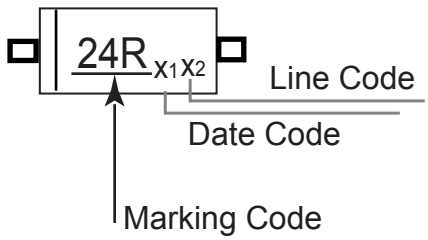
SOD-123S

SOD-123S



The Marking and Part No. for CHSDBDAGP-A (SOD-123S)

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