



CHENMKO ENTERPRISE CO.,LTD

Halogens free devices

SURFACE MOUNT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 100 Volts CURRENT 1.0 Ampere

CHSDAJAGP-A

FEATURES

- * For surface mounted applications
- * 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
- * Lead free devices

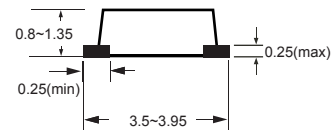
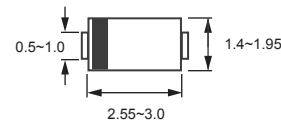
MARKING

* 110

CIRCUIT



SOD-123S



Dimensions in millimeters

SOD-123S

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

RATINGS	SYMBOL	CHSDAJAGP-A	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	Volts
Maximum RMS Voltage	V_{RMS}	70	Volts
Maximum DC Blocking Voltage	V_{DC}	100	Volts
Maximum Average Forward Rectified Current	I_o	1.0	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	110	pF
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	60	$^{\circ}\text{C} / \text{W}$
Operating Temperature Range	T_J	-65 to +150	$^{\circ}\text{C}$
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	CHSDAJAGP-A	UNITS
Maximum Instantaneous Forward Voltage at 1.0 A DC	V_F	0.8	Volts
Maximum Average Reverse Current	I_R	50	uAmps
at Rated DC Blocking Voltage		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.

2015-08

RATING CHARACTERISTIC CURVES (CHSDAJAGP-A)

FIG. 1 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

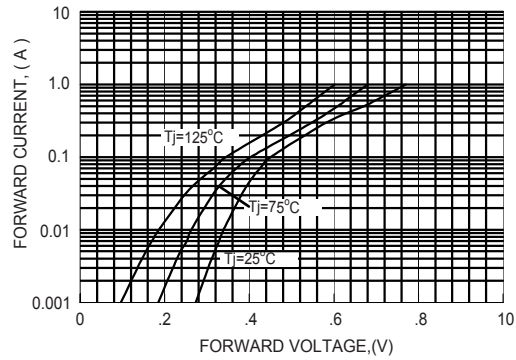


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

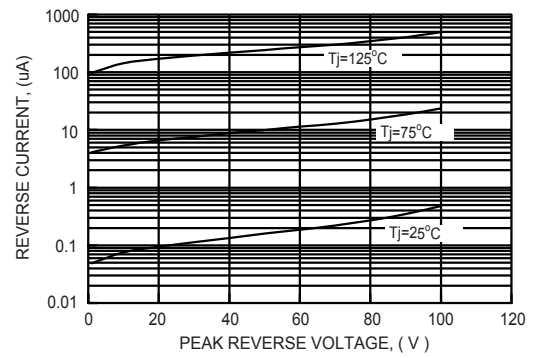


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

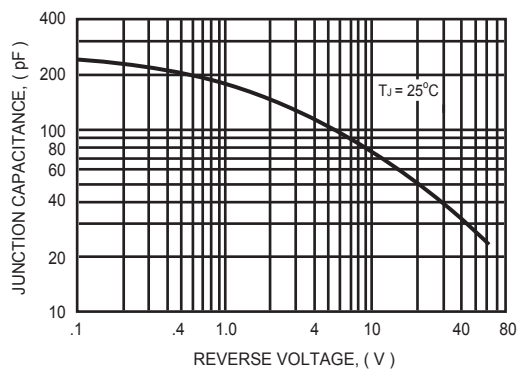
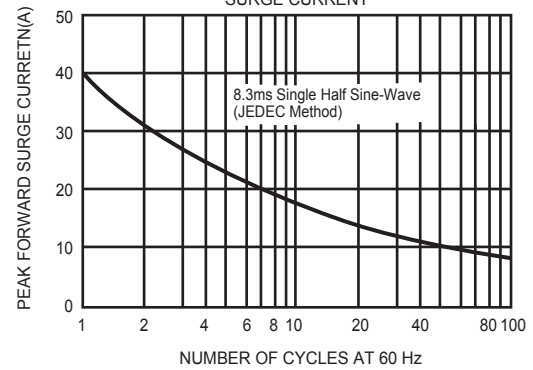
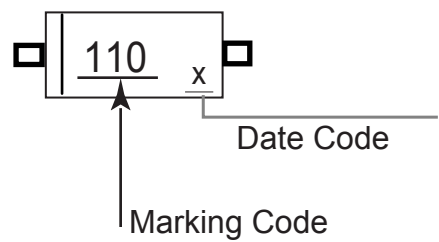


FIG. 4 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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

Marking:



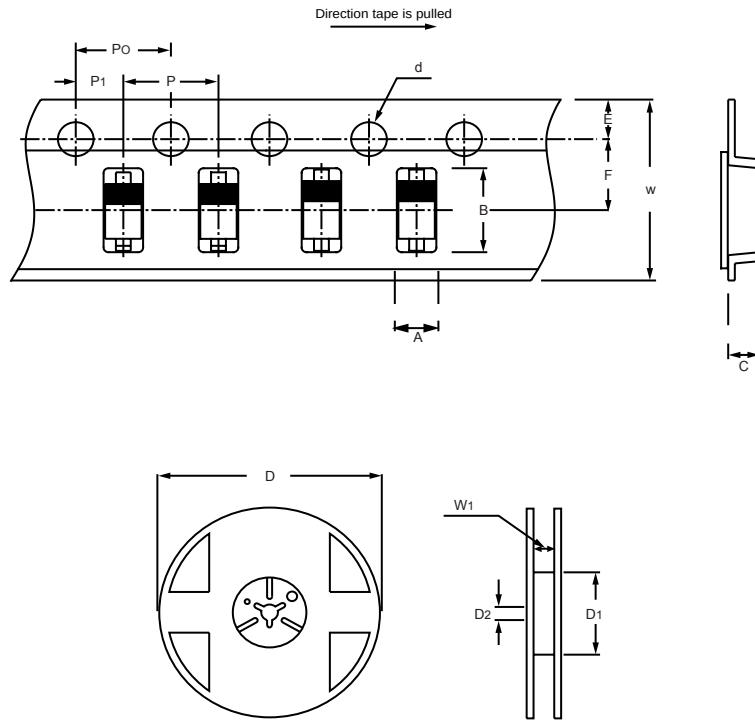
Date Code Standard (二年1個週期)

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. :

REEL TAPING SPECIFICATIONS FOR SURFACE MOUNT DEVICES - SOD-123S



ITEM	SYMBOL	SPECIFICATIONS (mm)	SPECIFICATIONS (inch)
Carrier width	A	1.9±0.1	0.075±0.004
Carrier length	B	4.0±0.1	0.157±0.004
Carrier depth	C	1.5±0.1	0.059±0.004
Sprocket hole	d	1.55±0.05	0.061±0.002
Reel outside diameter	D	180 + 0/-3	7.083 + 0/-0.118
Reel inner diameter	D1	60 + 1/-0	2.361 + 0.039/-0
Feed hole diameter	D2	13±0.2	0.512±0.008
Sprocket hole position	E	1.75±0.1	0.069±0.004
Punch hole position	F	3.5±0.05	0.138±0.002
Punch hole pitch	P	4.0±0.1	0.157±0.004
Sprocket hole pitch	P0	4.0±0.1	0.157±0.004
Embossment center	P1	2.0±0.05	0.079±0.002
Tape width	W	8.0±0.2	0.315±0.008
Reel width	W1	9.0±0.3	0.354±0.012

NOTE: 1.Devices are packed in accordance with EIAJ stand ETX-7001 and specifications listed above.
2.Available on 7 inch (3,000 c.t.) or 13 inch (10,000 c.t.) diameter reels.