



JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD

SMAG Plastic-Encapsulate Diodes

US1A THRU US1M High Efficient Rectifier Diodes

Features

- $I_{F(AV)}$ 1A
- V_{RRM} 50V-1000V
- High surge current capability
- Polarity: Color band denotes cathode

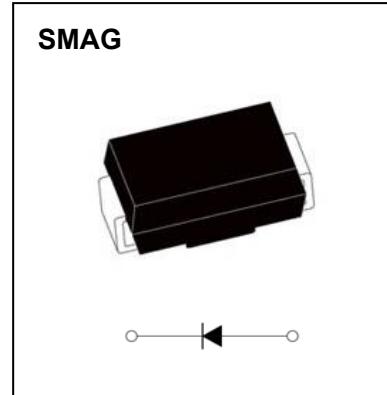
Applications

- Rectifier

Marking

- US1X

X : From A To M



Limiting Values(Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	US1						
				A	B	D	G	J	K	M
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V		35	70	140	280	420	560	700
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, $T_L=75^\circ C$	1.0						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, $T_a=25^\circ C$	30						
Operation Junction and Storage Temperature Range	T_J, T_{STG}	$^\circ C$		-55 ~ +150						

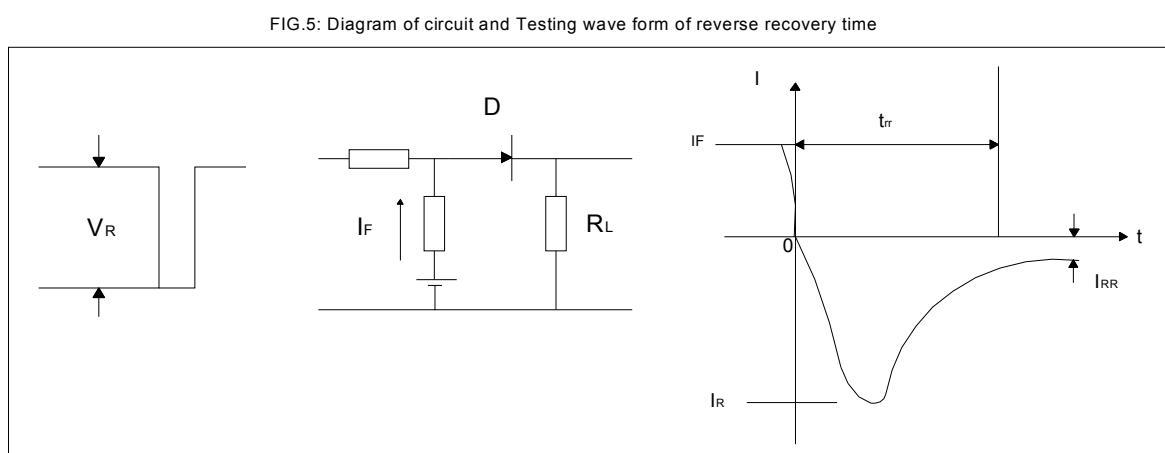
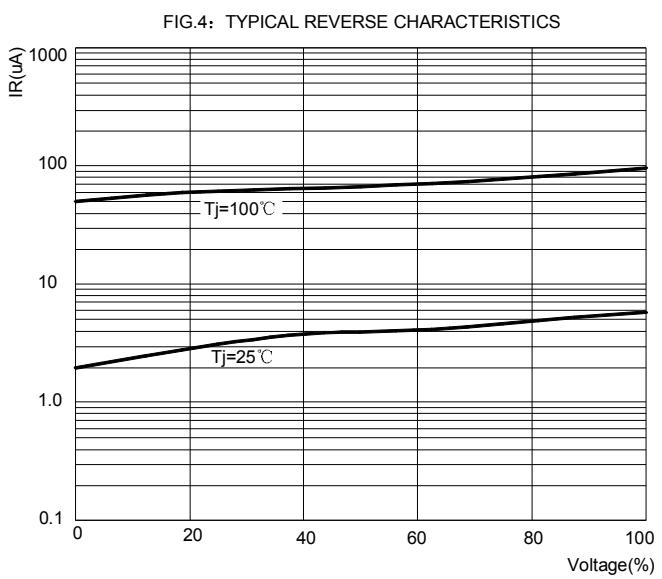
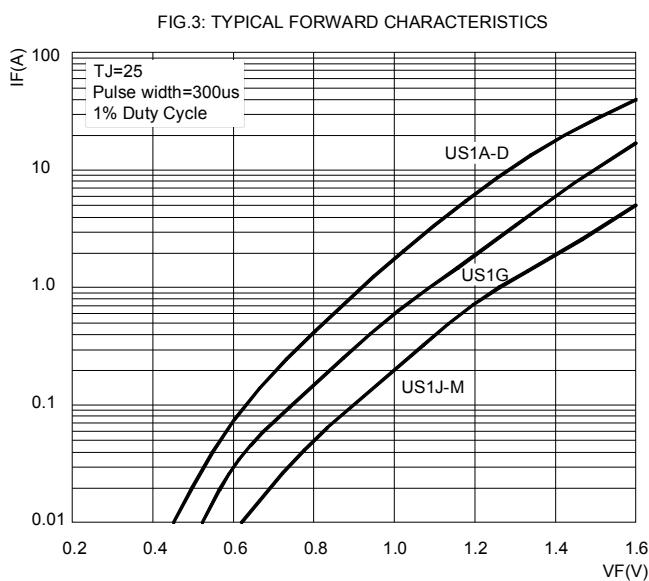
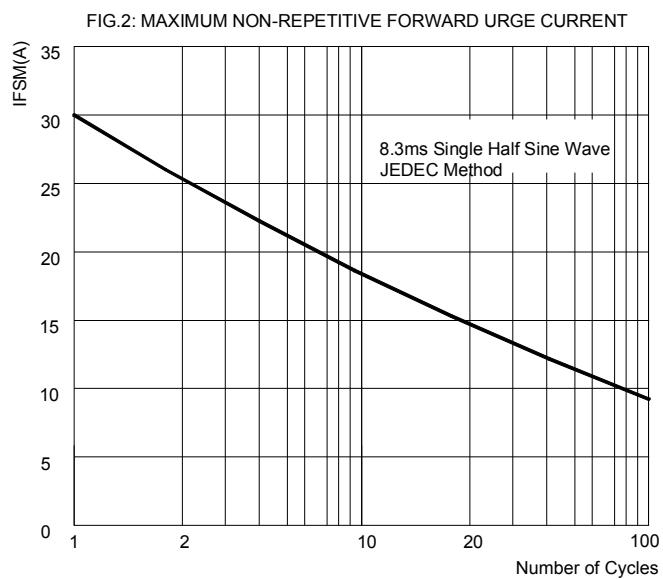
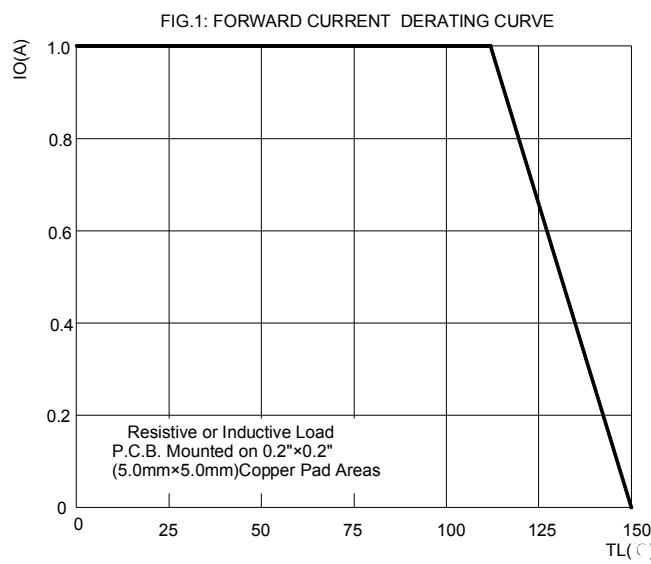
Electrical Characteristics ($T=25^\circ C$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	US1						
				A	B	D	G	J	K	M
Peak Forward Voltage	V_F	V	$I_F=1.0A$	1.0	1.3					1.7
Maximum reverse recovery time	t_{rr}	ns	$I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$	50						75
Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$	$T_a=25^\circ C$	5					
	I_{RRM2}			$T_a=125^\circ C$	50					
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^\circ C/W$	Between junction and ambient		55					
	$R_{\theta J-L}$		Between junction and terminal		25					

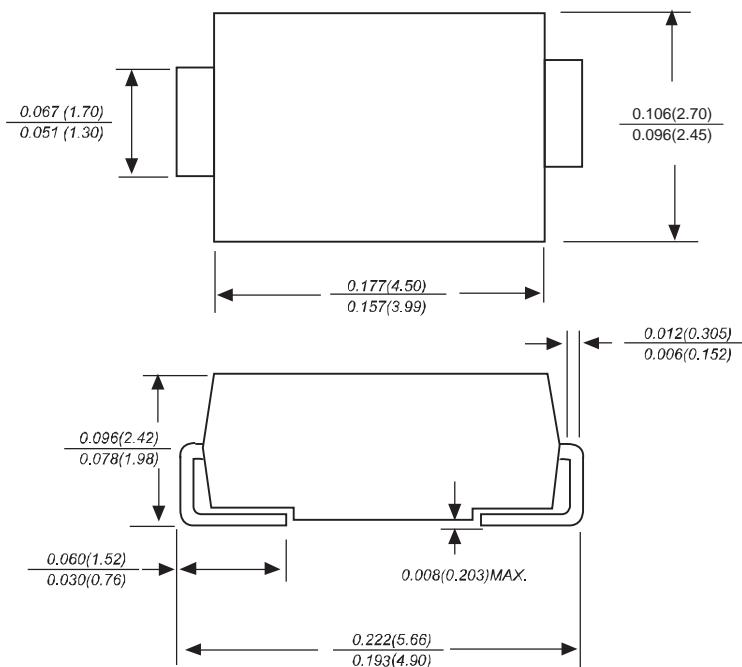
Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

Typical Characteristics

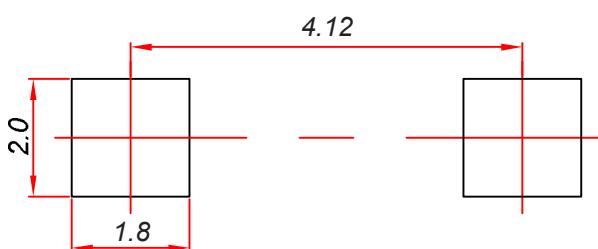


SMAG Package Outline Dimensions



Dimensions in inches and (millimeters)

SMAG Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

NOTICE

JSCJ reserves the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. JSCJ does not assume any liability arising out of the application or use of any product described herein.

Reel Taping Specifications For Surface Mount Devices- SMAG

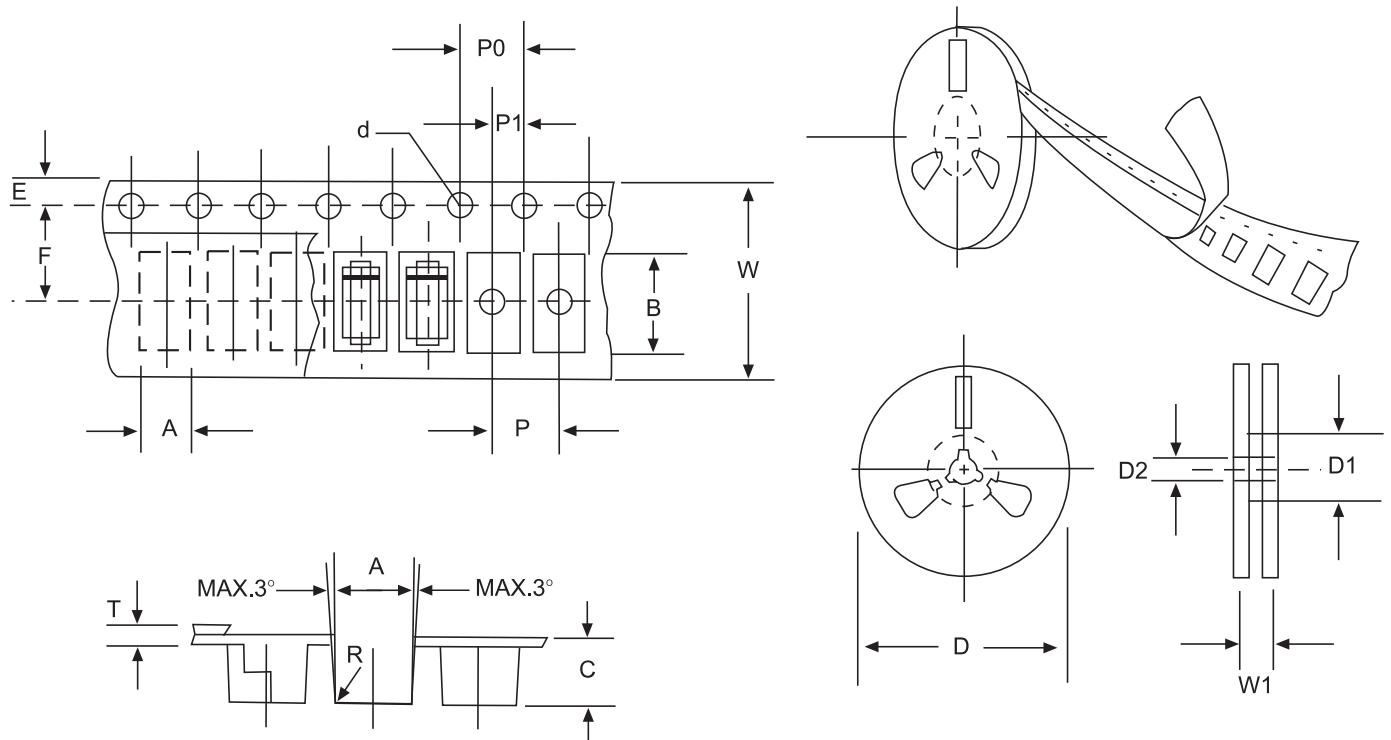


FIG:CONFIGURATION OF SURFACE MOUNTED DEVICES TAPING

ITEM	SYMBOL	SMAG mm(inch)
Carrier width	A	2.79 ± 0.1 (0.110 ± 0.004)
Carrier length	B	5.33 ± 0.1 (0.210 ± 0.004)
Carrier depth	C	2.36 ± 0.1 (0.093 ± 0.004)
Sprocket hole	d	1.55 ± 0.05 (0.061 ± 0.002)
Reel outside diameter	D	279 ± 2.0 (11 ± 0.079)
Reel inner diameter	D1	75 ± 1.0 (2.95 ± 0.039)
Feed hole diameter	D2	13 ± 0.5 (0.512 ± 0.020)
Stroket hole position	E	1.75 ± 0.1 (0.069 ± 0.004)
Punch hole position	F	5.5 ± 0.05 (0.217 ± 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 ± 0.1 (0.079 ± 0.004)
Total tape thickness	T	0.28 ± 0.02 (0.011 ± 0.0008)
Tape width	W	12.0 ± 0.2 (0.472 ± 0.008)
Reel width	W1	16.8 ± 2.0 (0.661 ± 0.079)

NOTE:Devices are packed in accordance with EIA standard RS-481-A and specification given above.

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