

SMAK Plastic-Encapsulate Diodes

General Purpose Rectifier

Features

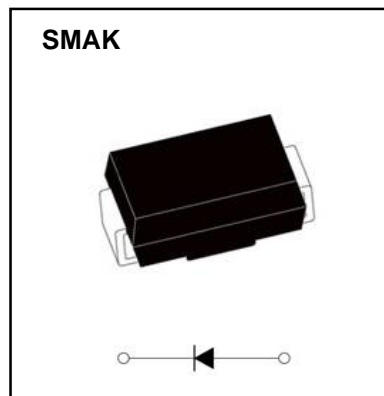
- I_o 1A
- VRRM 2000V
- High surge current capability
- Glass passivated chip
- Polarity: Color band denotes cathode

Applications

- Rectifier

Marking

- HD20G



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	HD20G
Repetitive Peak Reverse Voltage	VRRM	V		2000
Maximum RMS Voltage	VRMS	V		1400
Average Forward Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance load, $T_a=75^\circ\text{C}$	1
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60HZ Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	30
Junction Temperature	T_j	$^\circ\text{C}$		-55~+150
Storage Temperature	T_{stg}	$^\circ\text{C}$		-55 ~ +150

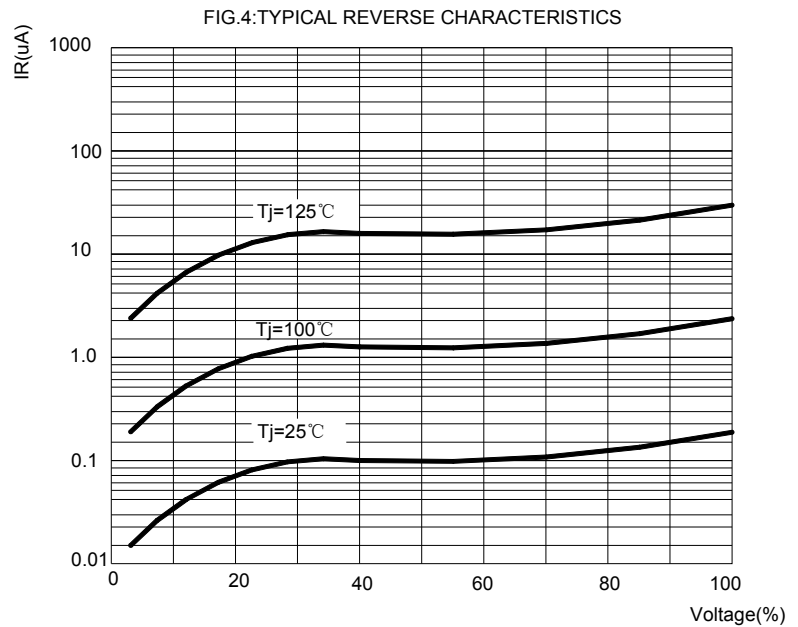
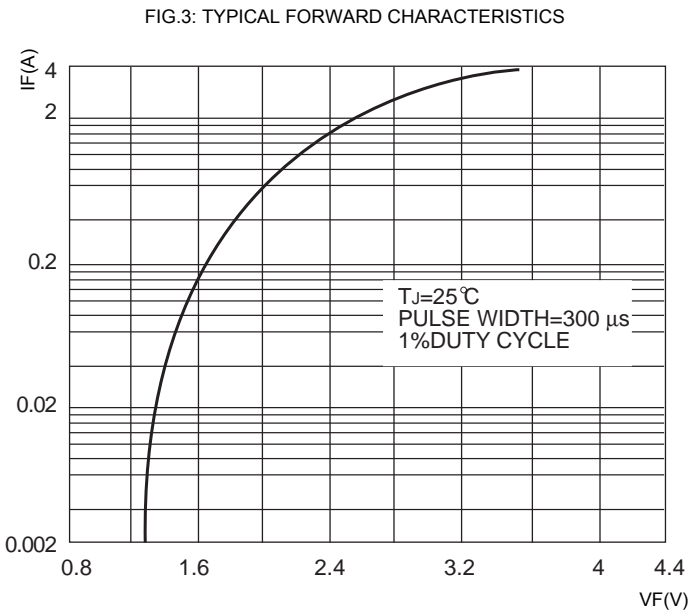
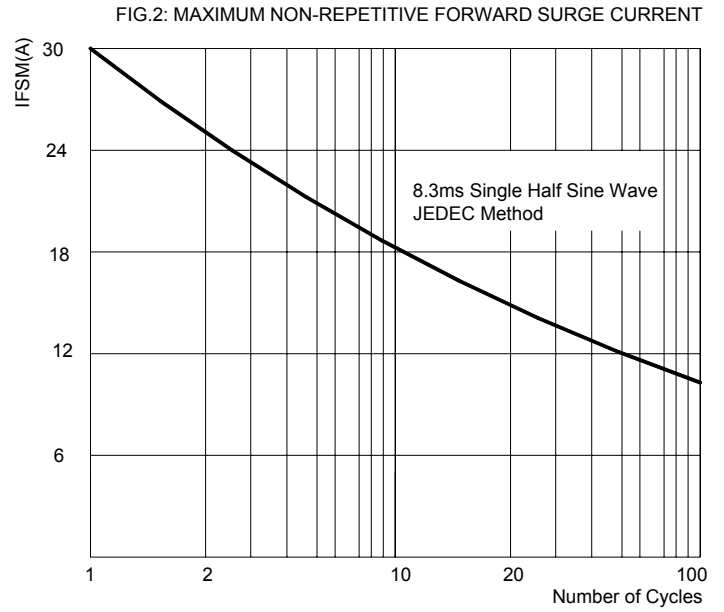
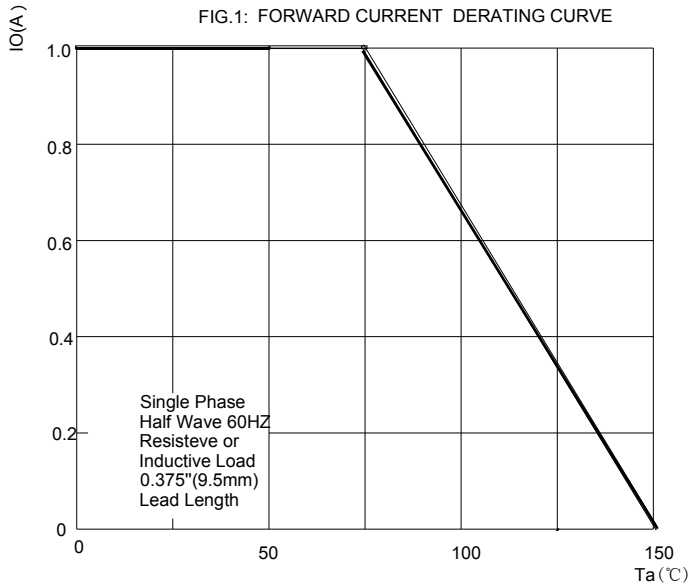
Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Max	
Peak Forward Voltage	V_{FM}	V	$I_{FM}=1A$	2.0	
Peak Reverse Current	I_{RRM1}	μA	VRM=VRRM	$T_a=25^\circ\text{C}$	5
	I_{RRM2}			$T_a=125^\circ\text{C}$	50

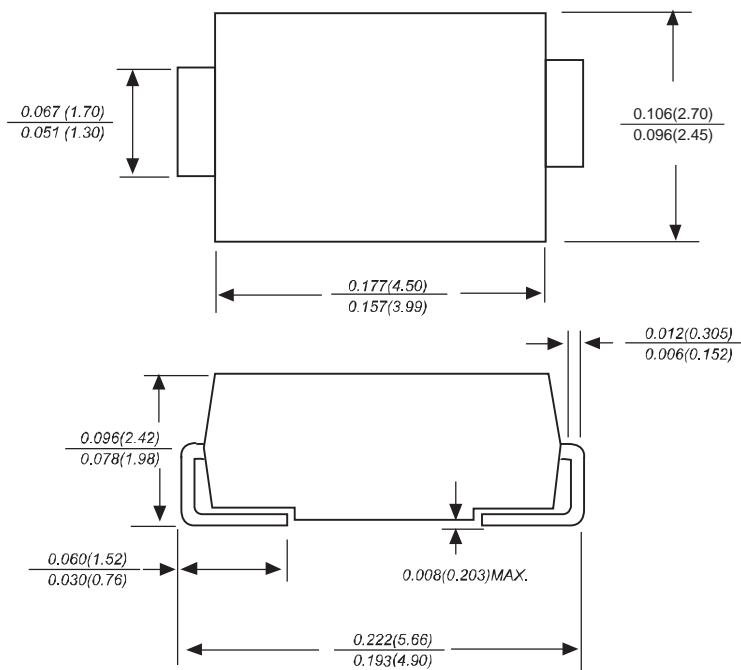
Notes:

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

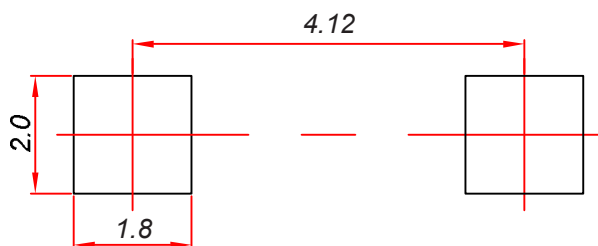


SMAK Package Outline Dimensions



Dimensions in inches and (millimeters)

SMAK Suggested Pad Layout



Note:

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

NOTICE

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

Reel Taping Specifications For Surface Mount Devices- SMA

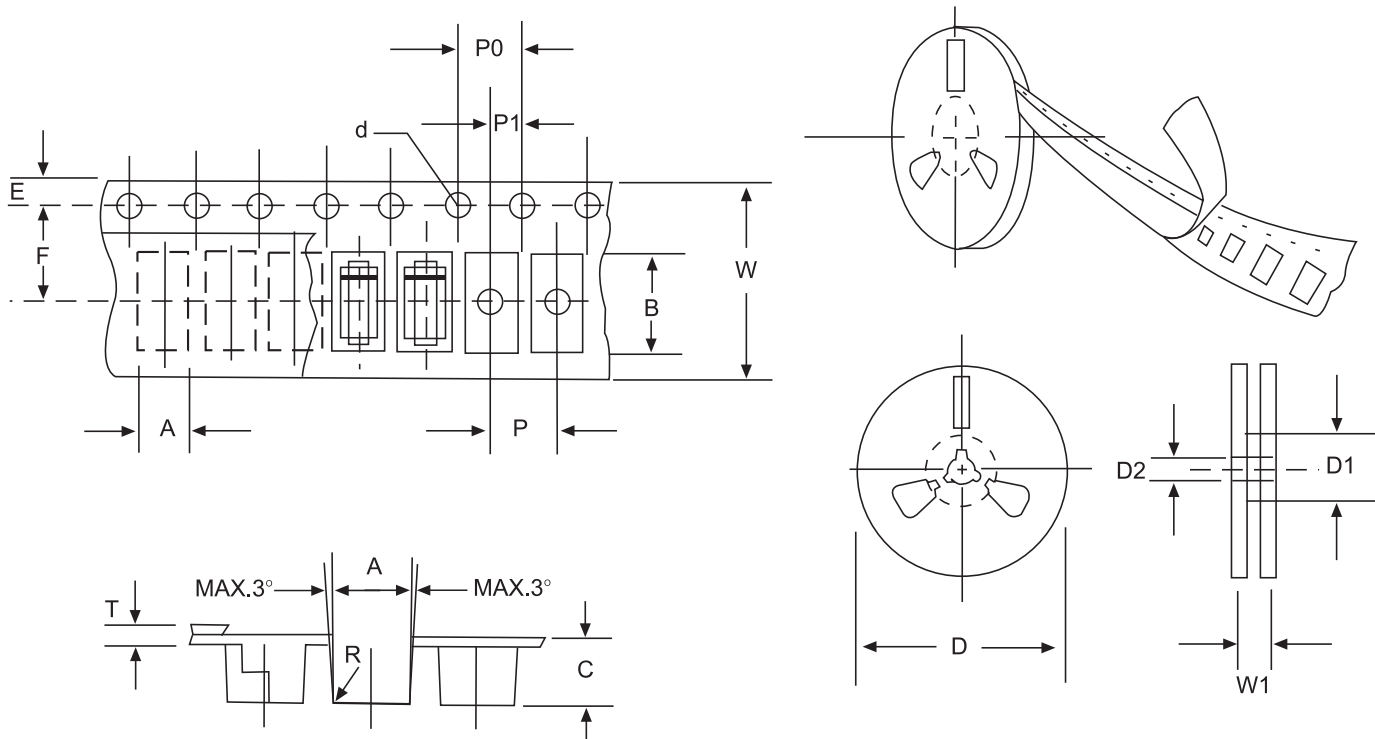


FIG:CONFIGURATION OF AXIAL TAPING

ITEM	SYMBOL	SMA 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	1.5±0.05(0.059±0.0002)
Reel outside diameter	D	330/178±2.0(13/7.0±0.79)
Reel inner diameter	D1	8.0±0.2(0.315±0.008)
Feed hole diameter	D2	13±0.5(0.512±0.020)
Sprocket 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.