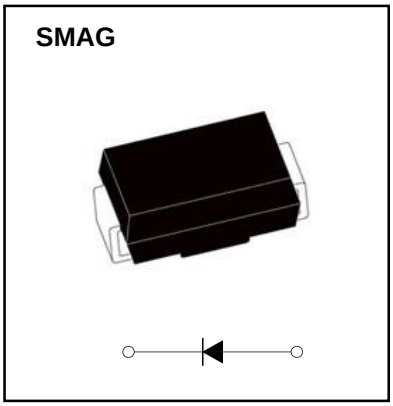
# SMAG Plastic-Encapsulate Diodes

**Schottky Rectifier**

## Features

- $I_O$ 1A
- VRRM 60V
- High surge current capability
- Polarity: Color band denotes cathode
- Low Vf




## Applications

- Rectifier

## Marking

- SS16L

## Limiting Values (Absolute Maximum Rating)

| Item | Symbol | Unit | Conditions | SS16L |
|---|---|---|---|---|
| Repetitive Peak Reverse Voltage | $V_{RRM}$ | V | | 60 |
| Maximum RMS Voltage | $V_{RMS}$ | V | | 42 |
| Average Forward Current | $I_{F(AV)}$ | A | 60Hz Half-sine wave, Resistance load, TL=125℃ | 1.0 |
| Surge(Non-repetitive)Forward Current | $I_{FSM}$ | A | 60Hz Half-sine wave,1 cycle, Ta=25℃ | 50 |
| Junction Temperature | $T_J$ | ℃ | | -55~+150 |
| Storage Temperature | $T_{STG}$ | ℃ | | -55~+150 |

## Electrical Characteristics ($T_a$=25℃ Unless otherwise specified)

| Item | Symbol | Unit | Test Condition | | SS16L |
|---|---|---|---|---|---|
| Peak Forward Voltage | $V_F$ | V | IF=1A | $T_a$=25℃ | 0.48(TYP) 0.50(MAX) |
| Peak Reverse Current | $I_{RRM1}$ | mA | $V_{RM}=V_{RRM}$ | $T_a$=25℃ | 0.02(TYP) 0.1(MAX) |
| | $I_{RRM2}$ | | | $T_a$=100℃ | 10 |
| Thermal Resistance(Typical) | $R_{\theta J-A}$ | ℃/W | Between junction and ambient | | 55 |
| | $R_{\theta J-L}$ | | Between junction and lead | | 17 |

**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

FIG.1: FORWARD CURRENT DERATING CURVE

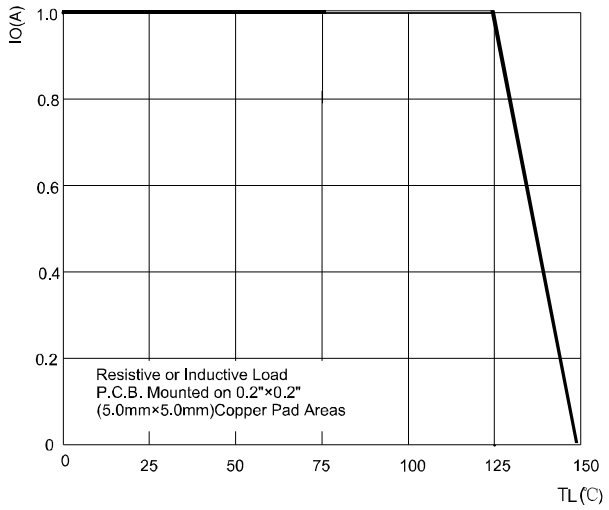



FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

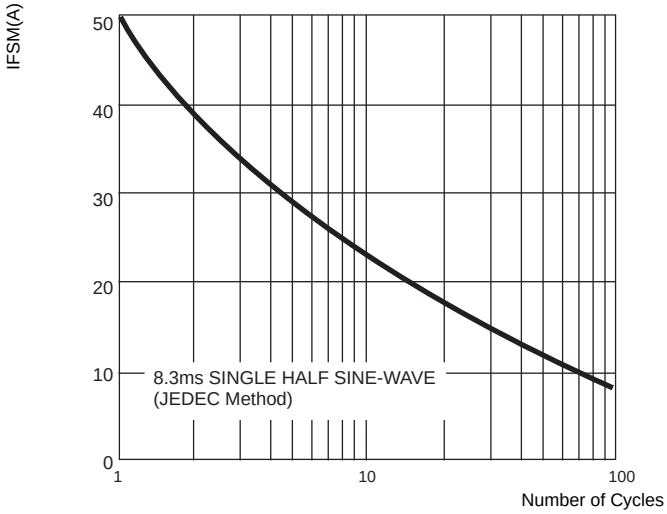



FIG.3: TYPICAL FORWARD CHARACTERISTICS

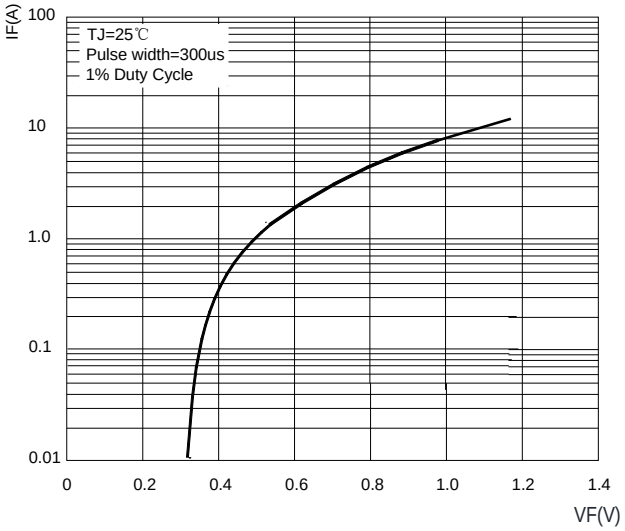
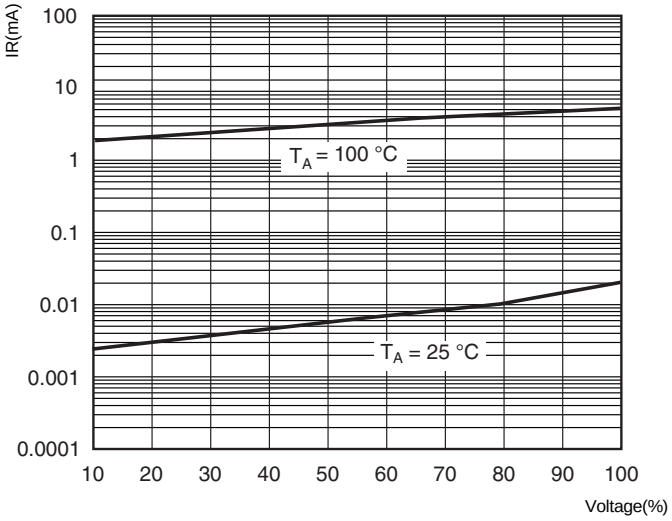
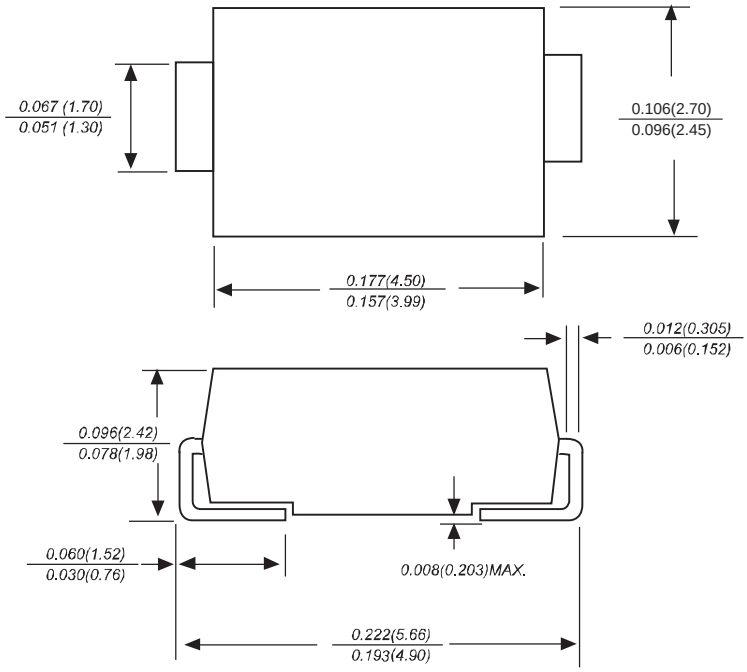



FIG.4：TYPICAL REVERSE CHARACTERISTICS

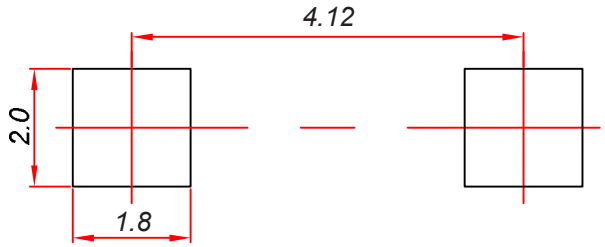


## SMAG Package Outline Dimensions




*Dimensions in inches and (millimeters)*

## SMAG Suggested Pad Layout




**Note:**
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.

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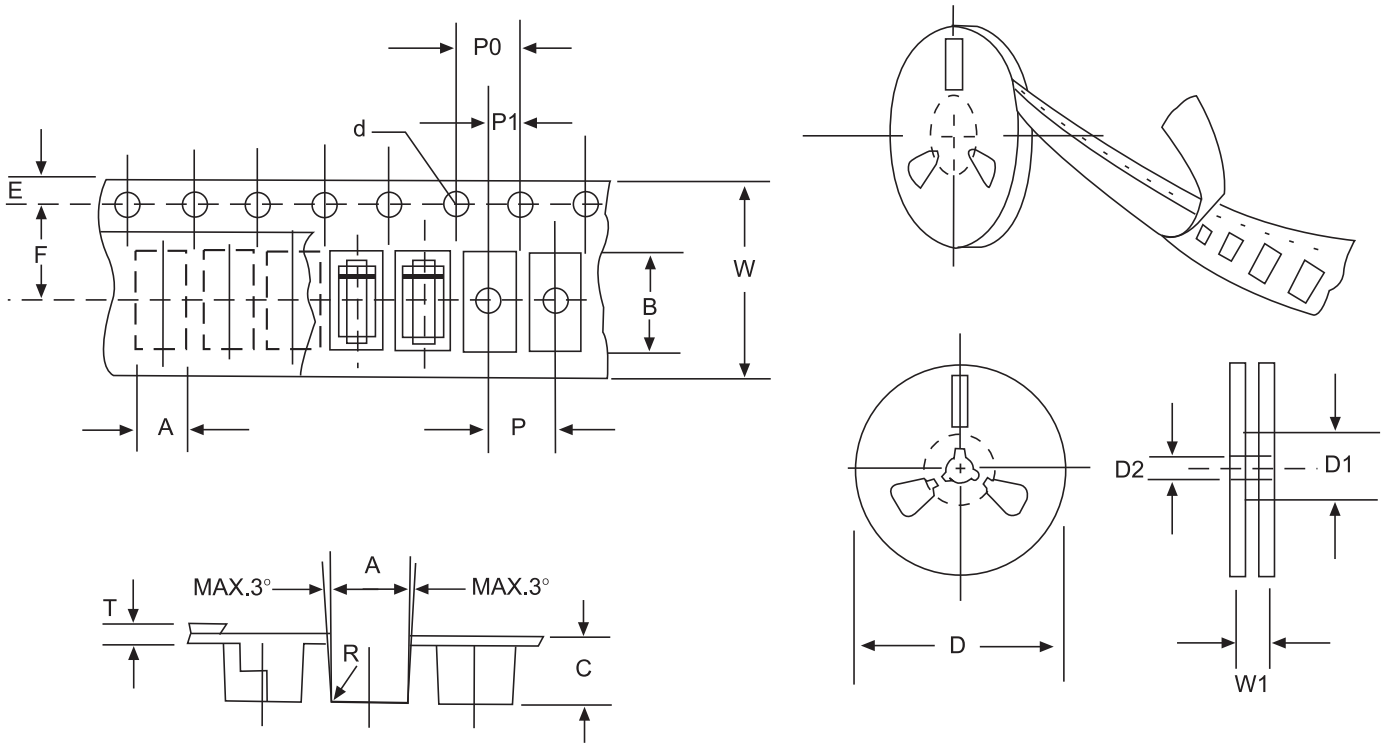


**Fig:CONFIGURATION OF FLAT MELF TAPING**

| 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) |
| Totall 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 packde in accordance with EIA standard RS-481-A and specification given above.

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