

## SOD-123HE Plastic-Encapsulate Diodes

Schottky Rectifier

### Features

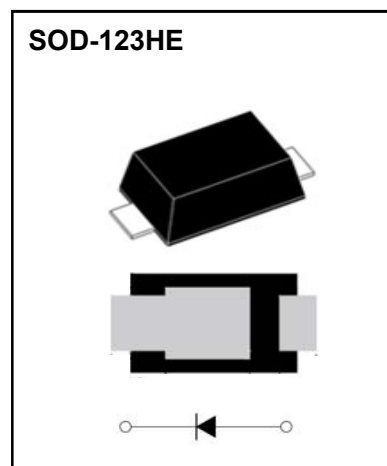
- $I_O$  1A
- $V_{RRM}$  60V
- High surge current capability
- Polarity: Color band denotes cathode
- Low  $V_f$

### Applications

- Rectifier

### Marking

- DSS16L : S16L



### Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	DSS16L
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		60
Average Forward Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance	1.0
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz Half-sine wave ,1 cycle , $T_a=25^{\circ}C$	50
Junction Temperature	$T_J$	$^{\circ}C$		-55~+150
Storage Temperature	$T_{STG}$	$^{\circ}C$		-55 ~ +150

### Electrical Characteristics (T =25°C Unless otherwise specified)

Item	Symbol	Unit	Test Condition	DSS16L	
Peak Forward Voltage	$V_F$	V	$I_F=1.0A$	0.5	
Peak Reverse Current	$I_{RRM1}$	mA	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}C$	0.1
	$I_{RRM2}$			$T_a=100^{\circ}C$	10
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^{\circ}C/W$	Between junction and ambient	70	
	$R_{\theta J-L}$		Between junction and terminal	20	

Note: Thermal resistance between junction and ambient and between junction and lead mounted on P.C.B with 3mm\*3mm copper pad areas.

# Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

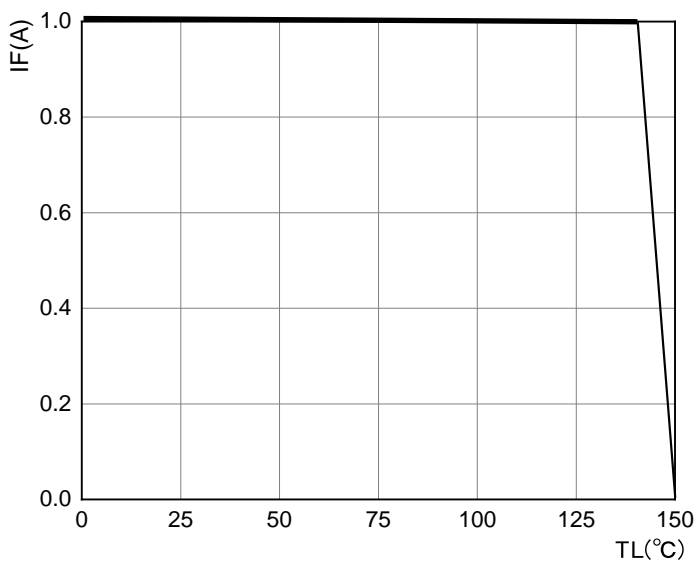


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

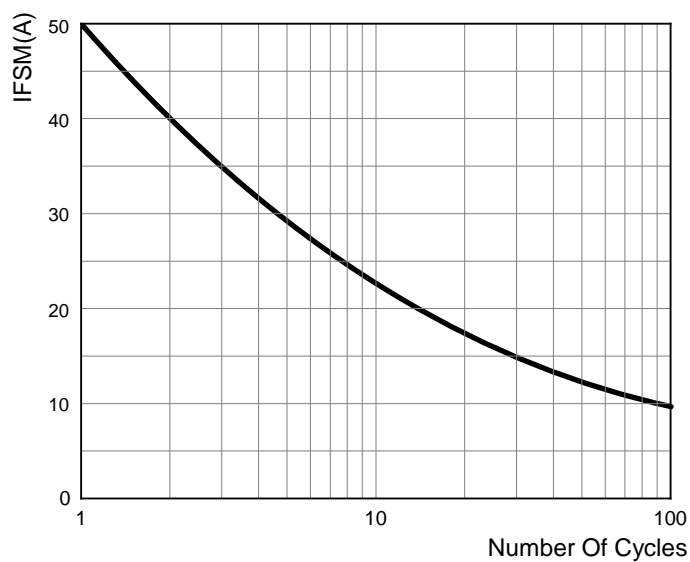


FIG.3: TYPICAL FORWARD CHARACTERISTICS

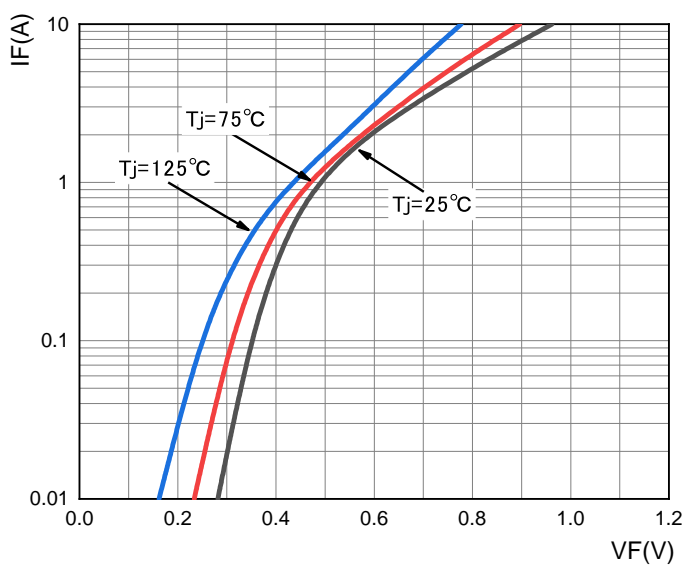
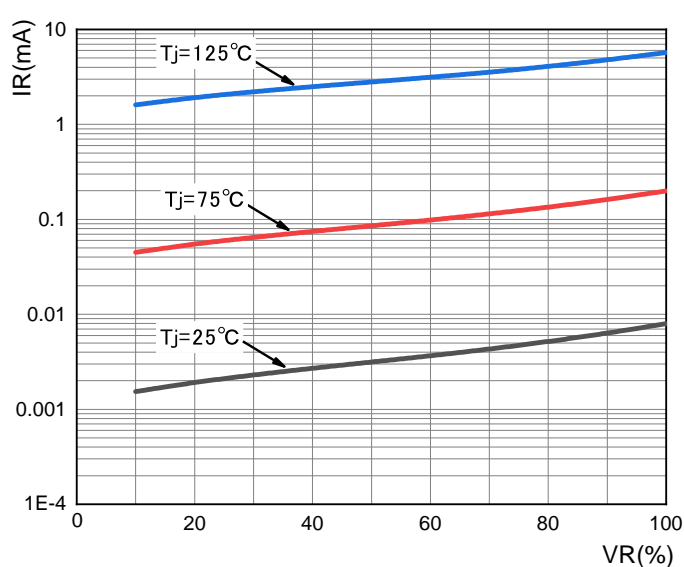
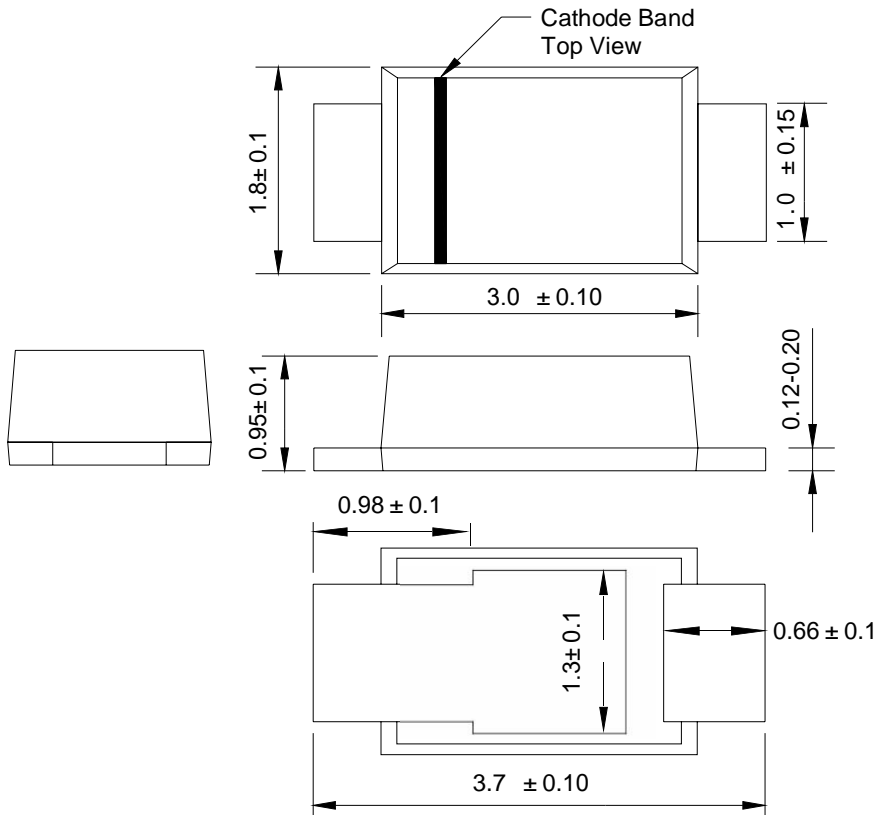


FIG.4: TYPICAL REVERSE CHARACTERISTICS



## SOD-123HE Package Outline Dimensions



Dimensions in millimeters

### NOTICE

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