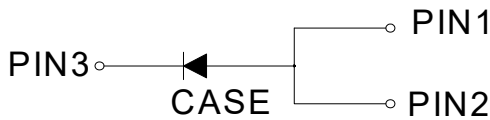
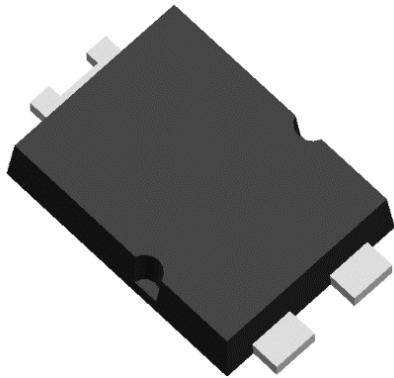


## Schottky Rectifier



### Features

- Ideal for automated placement
- Low power losses
- High forward surge capability
- Meets MSL level1, per J-STD-020, LF maximum peak of 260 °C

### Typical Applications

For use in lighting, fast switching rectification of power suppliers, inverters, converters, and freewheeling diodes for consumer, automotive, and telecommunication.

### Mechanical Data

- **Package:** TO-277  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, Halogen free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

### ■ Maximum Ratings ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS15U150P
Device marking code			SS15U150P
Repetitive Peak Reverse Voltage	$V_{RRM}$	V	150
Average Rectified Output Current @60Hz -sine wave, R- load, $T_c=55^\circ\text{C}$	$I_o$	A	15
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$	$I_{FSM}$	A	250
Current Squared Time @ $1\text{ms} \leq t \leq 8.3\text{ms}$ $T_j=25^\circ\text{C}$	$I^2t$	$\text{A}^2\text{s}$	259
Storage Temperature	$T_{stg}$	$^\circ\text{C}$	-55 ~+150
Junction Temperature	$T_j$	$^\circ\text{C}$	-55 ~+150

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=15.0\text{A}, T_j=25^\circ\text{C}$	-	0.8	0.84
			$I_{FM}=15.0\text{A}, T_j=125^\circ\text{C}$	-	0.68	0.73
Reverse Breakdown Voltage	$V_{BR}$	V	$I_R=0.1\text{mA}$	150	-	-
Leakage Current	$I_R$	mA	$V_R=150\text{V}, T_j=25^\circ\text{C}$	-	-	0.1
			$V_R=150\text{V}, T_j=125^\circ\text{C}$	-	-	20

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



# SS15U150P

## ■ Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	SS15U150P
Thermal Resistance	Junction to Case	R <sub>θJ-C</sub>	°C/W	8

## ■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS15U150P	F1	Approximate 0.0828	5000	10000	80000	13" reel

## ■ Characteristics(Typical)

FIG.1: I<sub>o</sub>-T<sub>c</sub> Curve

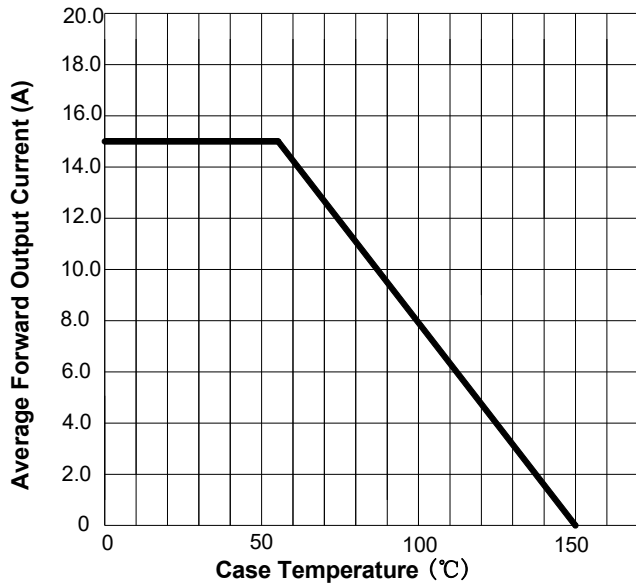


FIG2: Surge Forward Current Capability

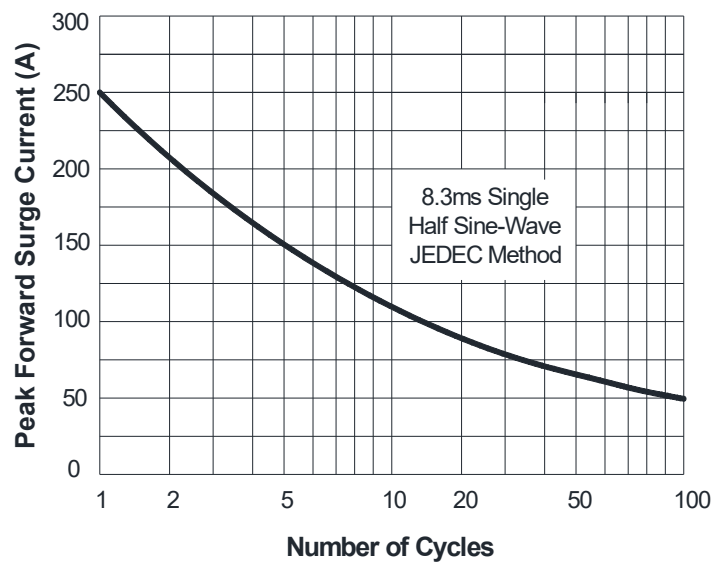


FIG3: Forward Voltage

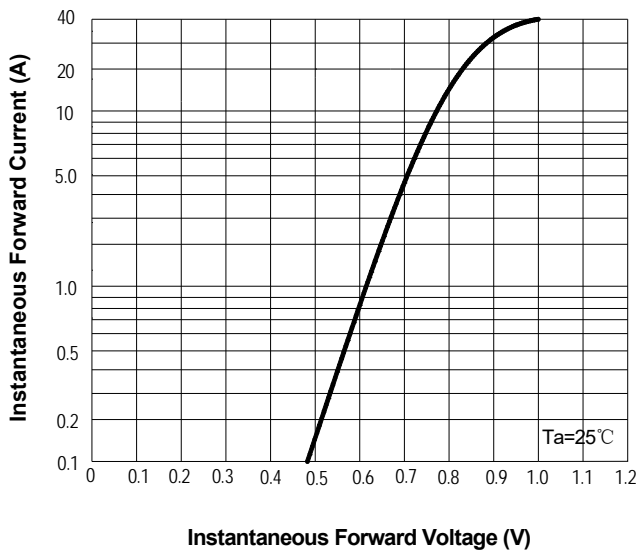
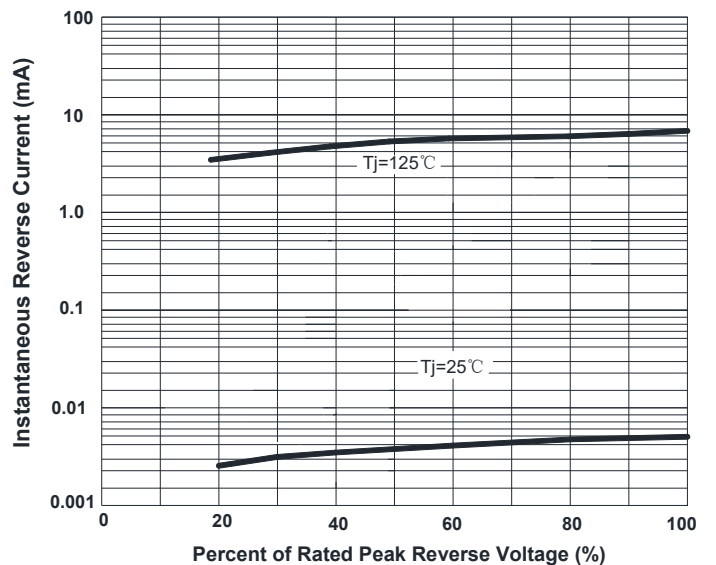
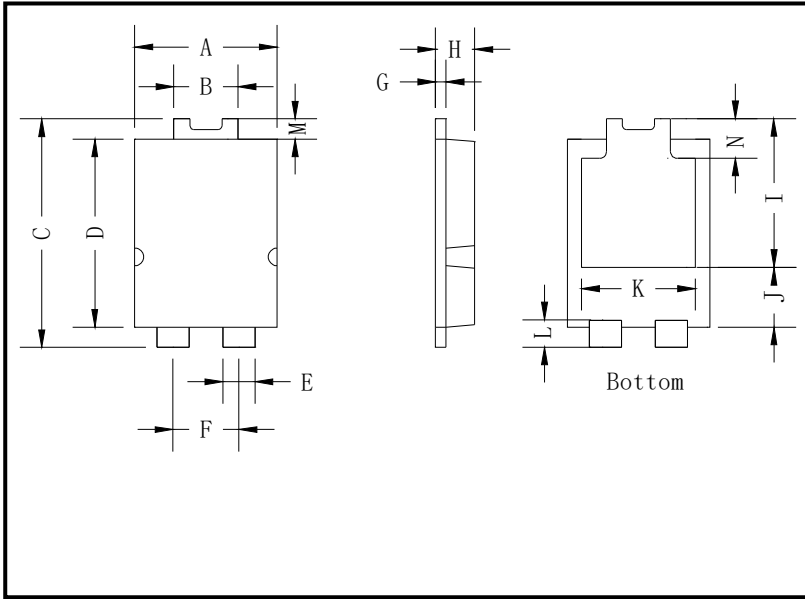


FIG.4: Instantaneous Reverse Characteristics

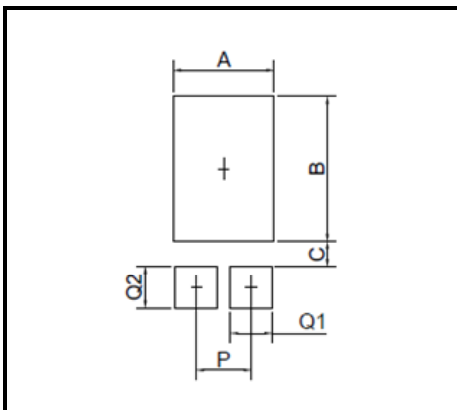


## ■ Outline Dimensions



TO-277		
Dim	Min(mm)	Max(mm)
A	3.90	4.10
B	1.70	1.90
C	6.40	6.60
D	5.30	5.50
E	0.80	1.00
F	1.85 ref.	
G	0.35	0.45
H	1.10	1.20
I	4.10	4.50
J	1.50	1.90
K	2.90	3.40
L	0.55	0.75
M	0.50 ref.	
N	1.15 ref.	

## ■ Suggested pad layout



DIM	MIN.(mm)
A	3.36
B	4.86
C	0.85
P	1.84
Q1	1.40
Q2	1.40



## SS15U150P

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