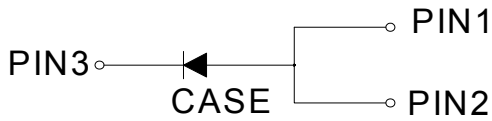
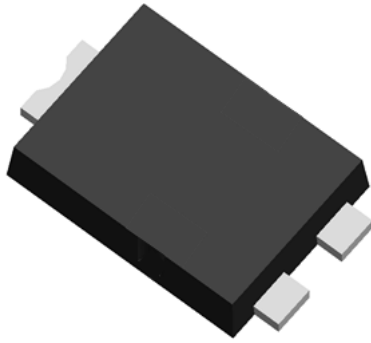


Schottky Rectifier



Features

- Ideal for automated placement
- Low power losses
- High forward surge capability

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	SS8U100
Device marking code			SS8U100
Repetitive Peak Reverse Voltage	V_{RRM}	V	100
Average Rectified Output Current @60Hz-sine wave, R-load, $T_a=25^{\circ}\text{C}$	I_O	A	8
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}\text{C}$	I_{FSM}	A	150
Current Squared Time @ $1\text{ms} \leq t \leq 8.3\text{ms}$ $T_j=25^{\circ}\text{C}$	I^2t	A^2s	93
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	$I_{FM}=8.0\text{A}, T_j=25^{\circ}\text{C}$	-	0.67	0.72
			$I_{FM}=8.0\text{A}, T_j=125^{\circ}\text{C}$	-	0.62	0.67
Reverse Breakdown Voltage	V_{BR}	V	$I_R=0.5\text{mA}$	100	-	-
Leakage Current	I_R	mA	$V_R=100\text{V}, T_j=25^{\circ}\text{C}$	-	0.01	0.1
			$V_R=100\text{V}, T_j=125^{\circ}\text{C}$	-	4.0	10.0



SS8U100

■ Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	SS8U100
Thermal Resistance	Junction to Case	R _{θJ-C}	°C/W	10

■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS8U100	F1	Approximate 0.093	5000	10000	80000	13" reel

■ Characteristics(Typical)

FIG.1: I_o-T_c Curve

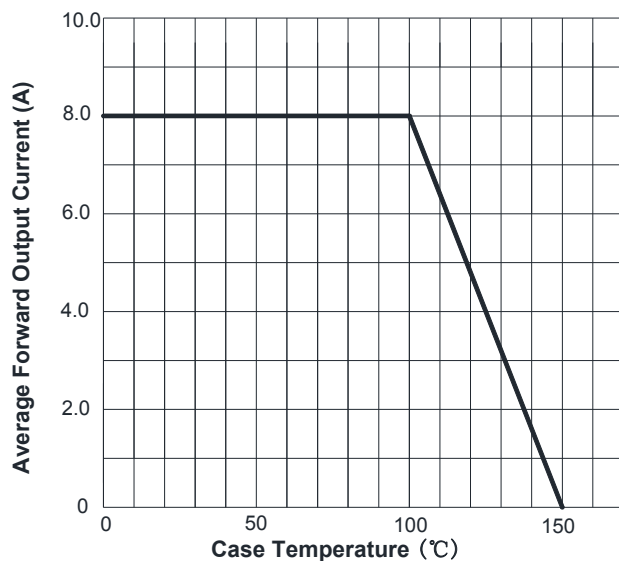


FIG.2: Forward Surge Current Capability

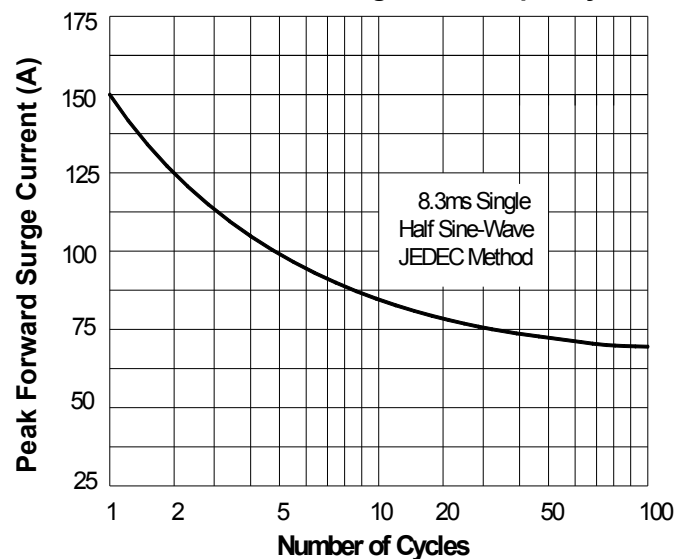


FIG.3: Forward Voltage

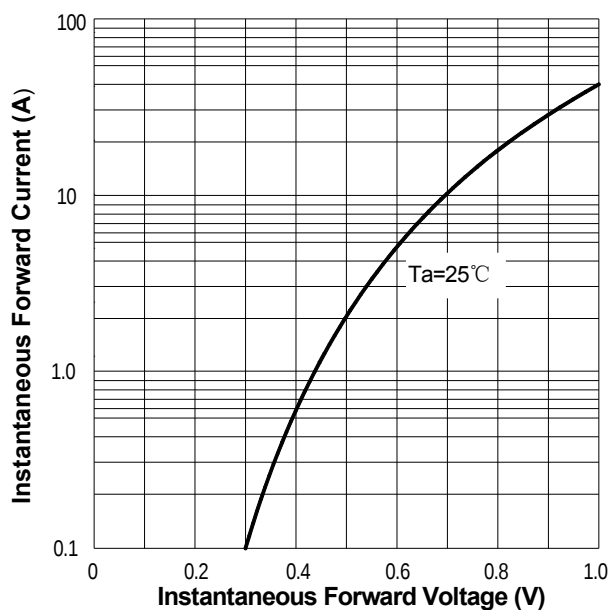
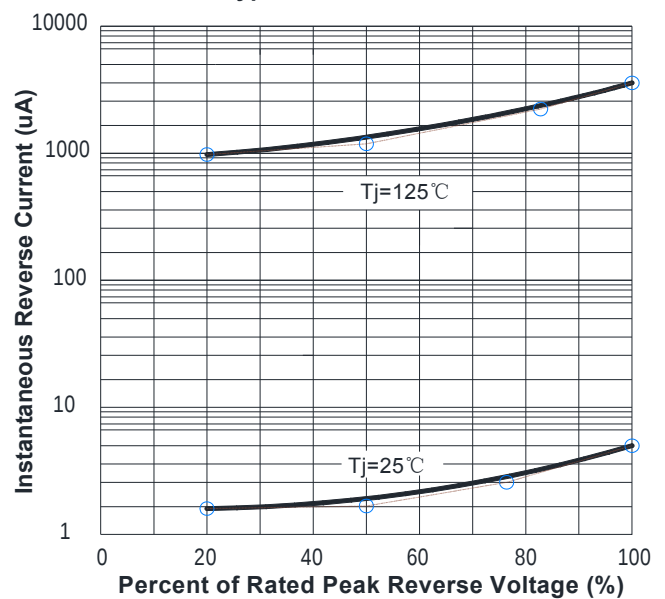
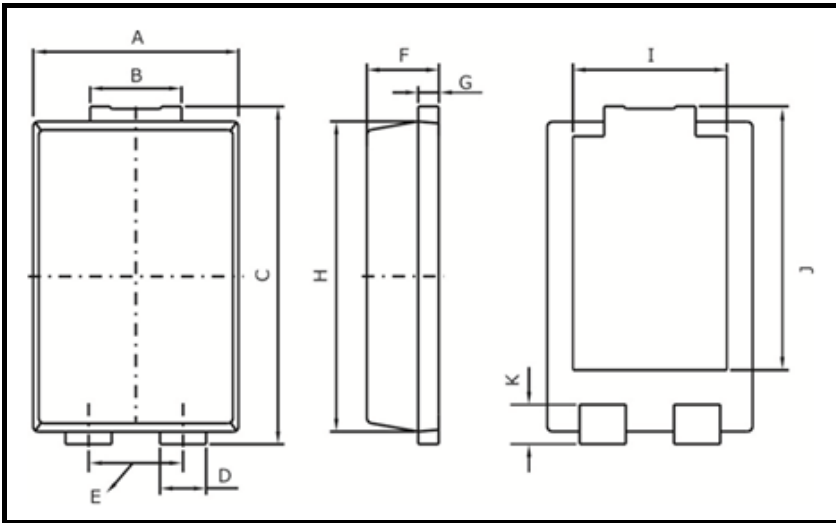


FIG.4: Typical Reverse Characteristics



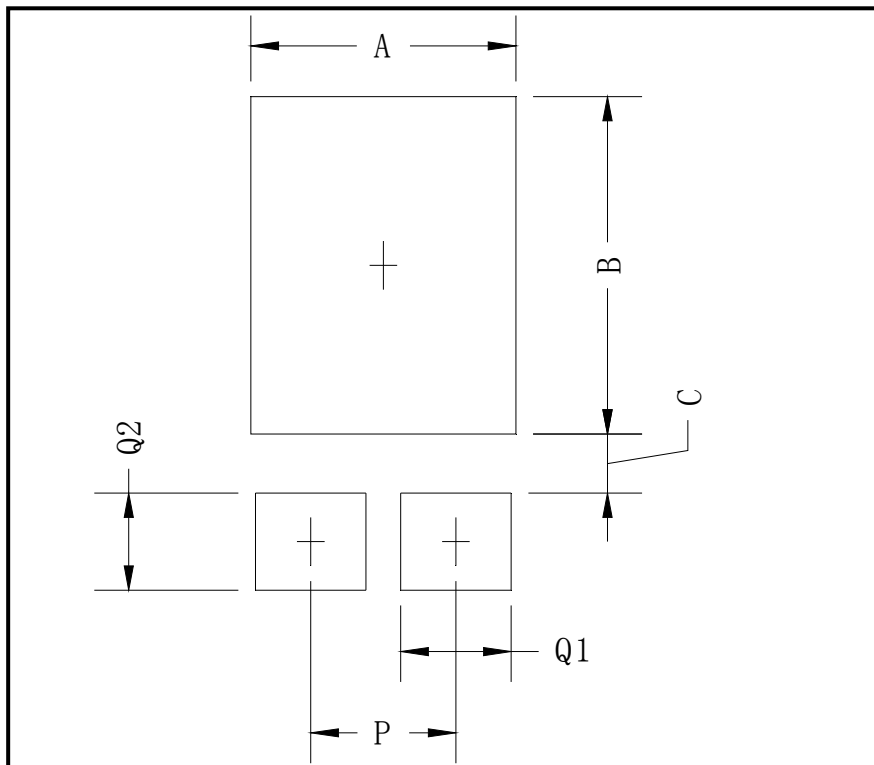
■ Outline Dimensions

TO-277



Dim.	Min.	Max.
A	3.90	4.10
B	1.74	1.94
C	6.40	6.60
D	0.80	1.05
E	1.84 typ.	
F	1.00	1.20
G	0.35	0.45
H	5.30	5.45
I	3.05 typ.	
J	4.40 typ.	
K	0.60	0.95
All Dimensions in millimeter		

■ Suggested pad layout



Dim	Min(mm)
A	3.40
B	4.90
C	0.85
P	1.84
Q1	1.40
Q2	1.40



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