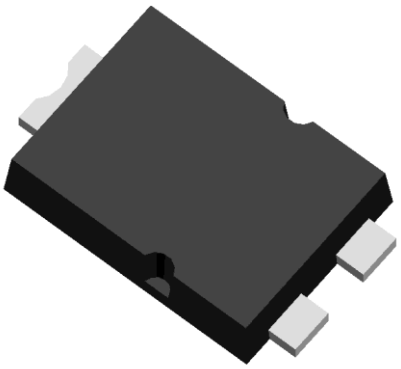
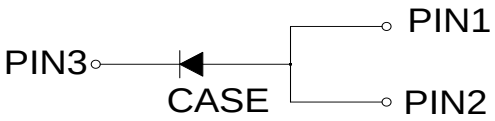
Schottky Rectifier





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 (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS8U45
Device marking code			SS8U45
Repetitive Peak Reverse Voltage	V_{RRM}	V	45
Average Rectified Output Current @60Hz -sine wave, R- load, Tc=120℃	I_O	A	8
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Ta=25℃	I_{FSM}	A	150
Current Squared Time @1ms≤t≤8.3ms Tj=25℃	I^2t	A^2s	96
Storage Temperature	Tstg	℃	-55 ~+150
Junction Temperature	Tj	℃	-55 ~+150

■Electrical Characteristics（Ta=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	V_{FM}	V	I_{FM} =8.0A,Tj=25℃	-	0.43	0.47
			I_{FM} =8.0A,Tj=125℃	-	0.37	0.40
Reverse Breakdown Voltage	V_{BR}	V	I_R=0.5mA	45	-	-
Leakage Current	I_R	mA	V_R=45V，Tj=25℃	-	-	0.5
			V_R=45V，Tj=100℃	-	-	100

■Thermal Characteristics （Ta=25℃ Unless otherwise specified）

PARAMETER		SYMBOL	UNIT	SS8U45
Thermal Resistance	Junction to Case	$R_{\theta J-C}$	℃/W	8
	Junction to Ambient	$R_{\theta J-A}$		35

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS8U45	F1	Approximate 0.0821	5000	10000	80000	13” reel

■ Characteristics(Typical)

FIG.1: Io-Tc Curve

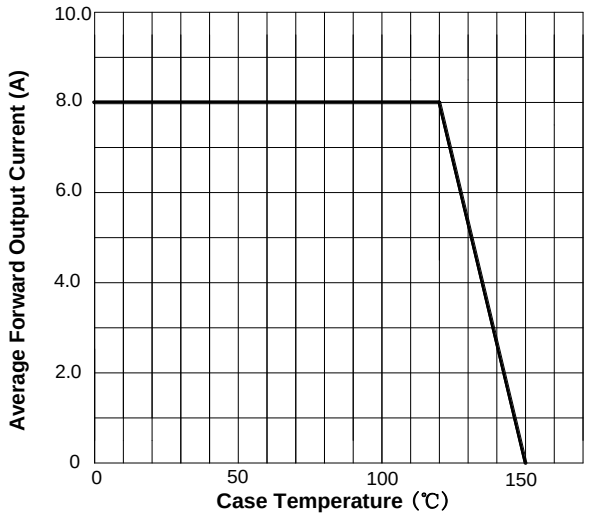


FIG.2: Forward Surge Current Capability

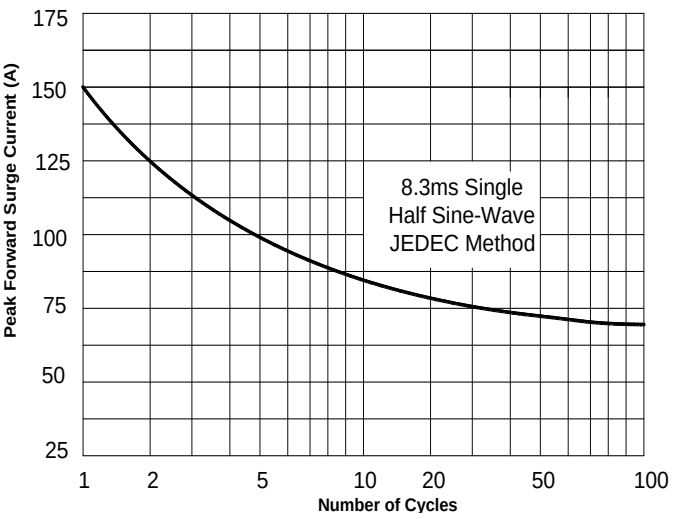


FIG.3: Forward Voltage

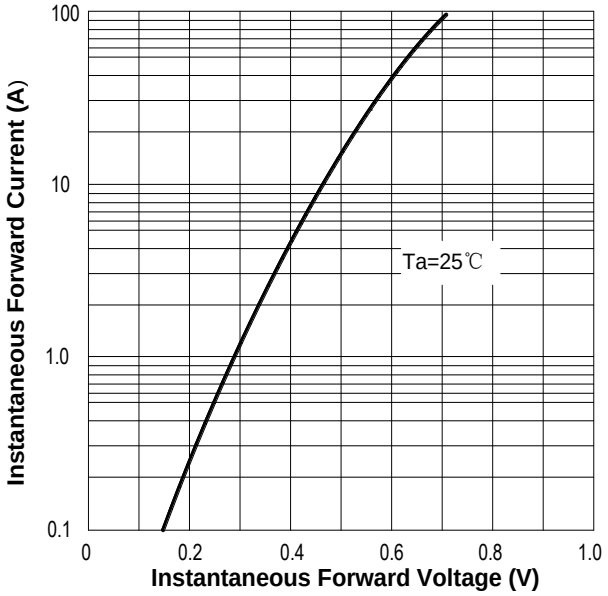
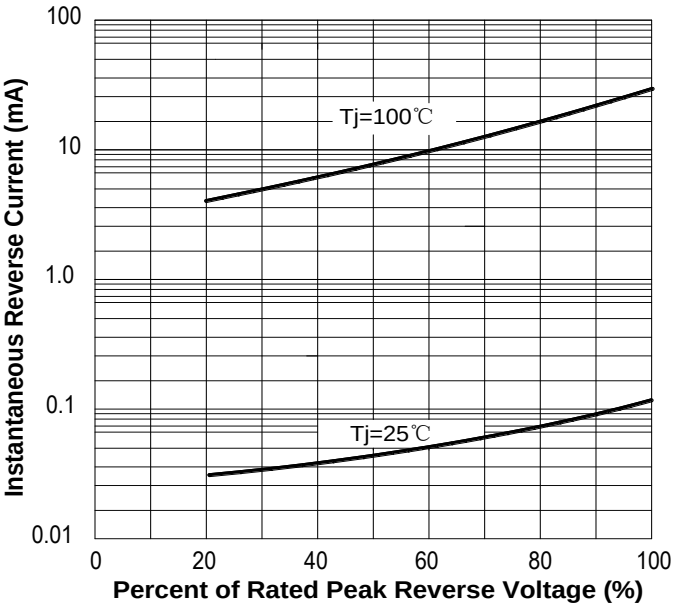
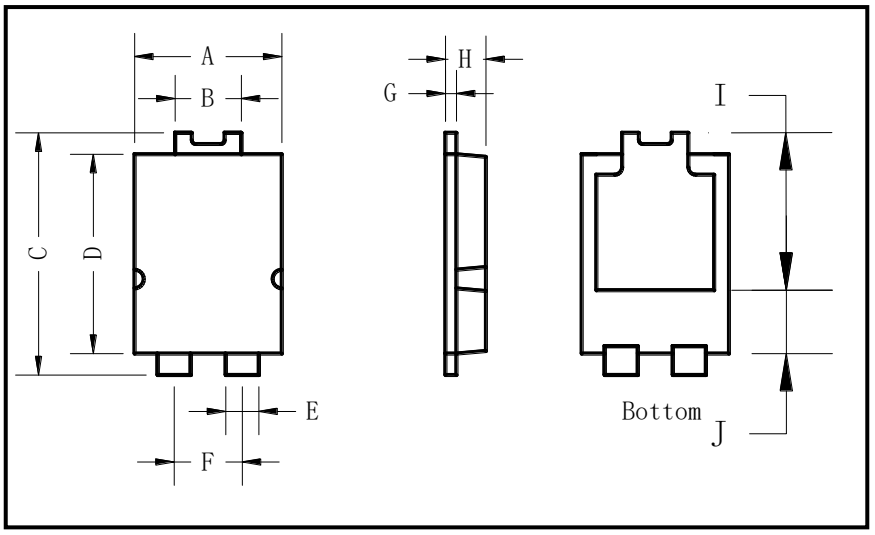


FIG.4: Typical Reverse Characteristics

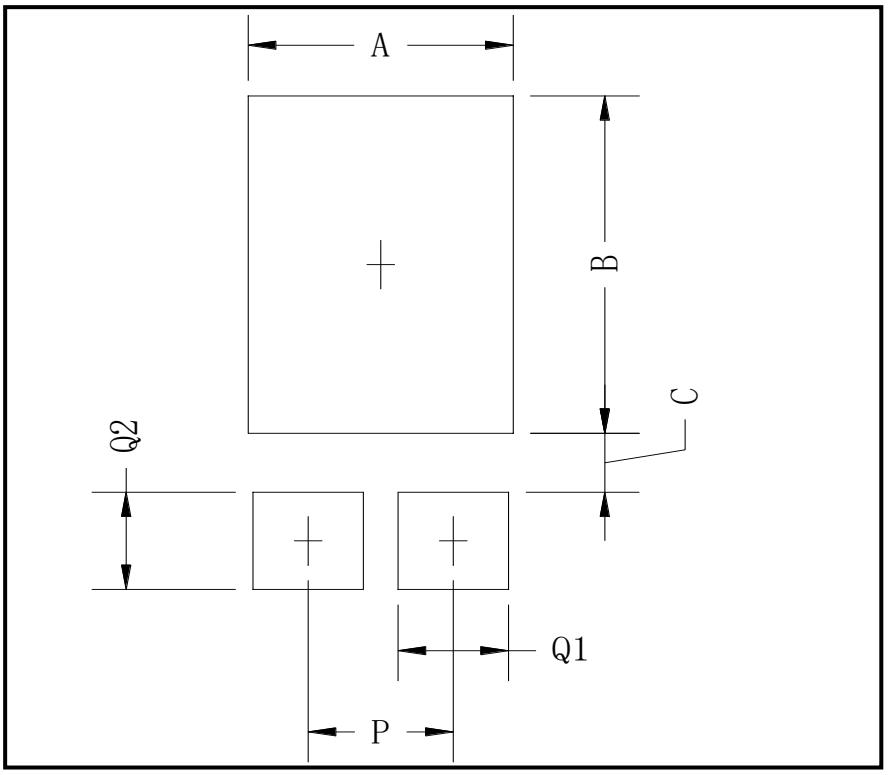


■ Outline Dimensions



TO-277		
Dim	Min**(mm)**	Max**(mm)**
A	3.9	4.1
B	1.7	1.9
C	6.4	6.6
D	5.3	5.5
E	0.8	1.0
F	1.8	1.9
G	0.35	0.45
H	1.10	1.20
I	4.1	4.5
J	1.5	1.9

■ Suggested pad layout



Dim	**Min(mm)**
A	3.36
B	4.86
C	0.85
P	1.84
Q1	1.4
Q2	1.4

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