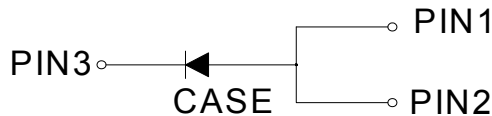
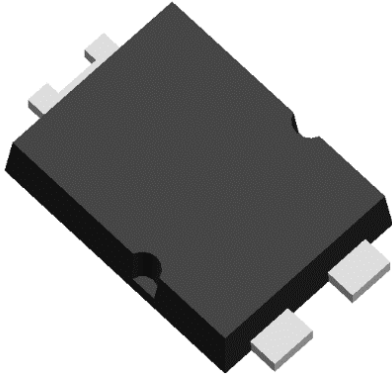


Schottky Rectifier



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, 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°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS10U45
Device marking code			SS10U45
Repetitive Peak Reverse Voltage	V _{RRM}	V	45
Average Rectified Output Current @60Hz -sine wave, R- load, T _c =90°C	I _O	A	10
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _a =25°C	I _{FSM}	A	200
Current Squared Time @1ms≤t≤8.3ms T _j =25°C	I ² t	A ² s	166
Storage Temperature	T _{stg}	°C	-55 ~+150
Junction Temperature	T _j	°C	-55 ~+125

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	V _{FM}	V	I _{FM} =10.0A, T _j =25°C	-	0.43	0.47
			I _{FM} =10.0A, T _j =125°C	-	0.37	0.40
Reverse Breakdown Voltage	V _{BR}	V	I _R =0.5mA	45	-	-
Leakage Current	I _R	mA	V _R =45V, T _j =25°C	-	-	0.3
			V _R =45V, T _j =100°C	-	-	50

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

PARAMETER	SYMBOL	UNIT	SS10U45	
Thermal Resistance	Junction to Case	R _{θJ-C}	°C/W	8



SS10U45

Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS10U45	F1	Approximate 0.0821	5000	10000	80000	13" reel

Characteristics(Typical)

FIG.1: I_o - T_c Curve

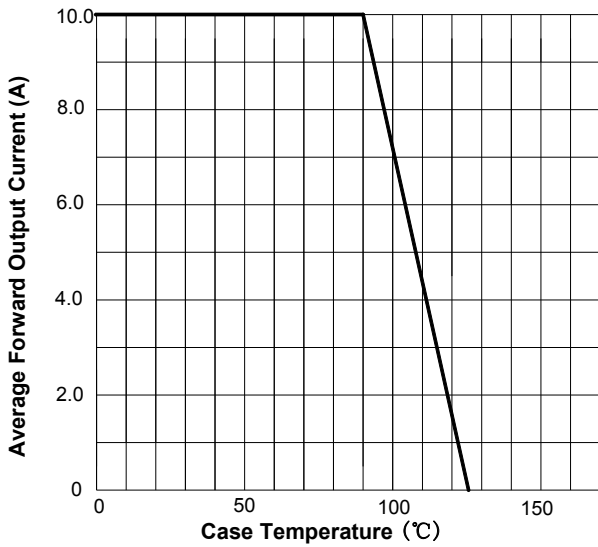


FIG.2: Forward Surge Current Capability

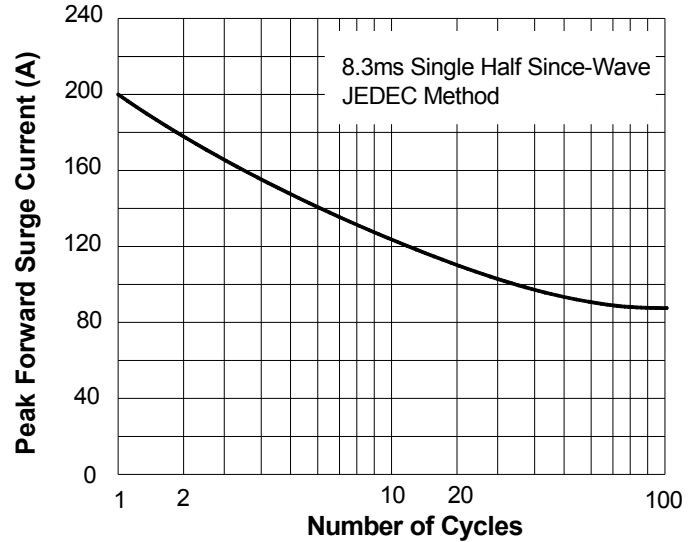


FIG.3: Forward Voltage

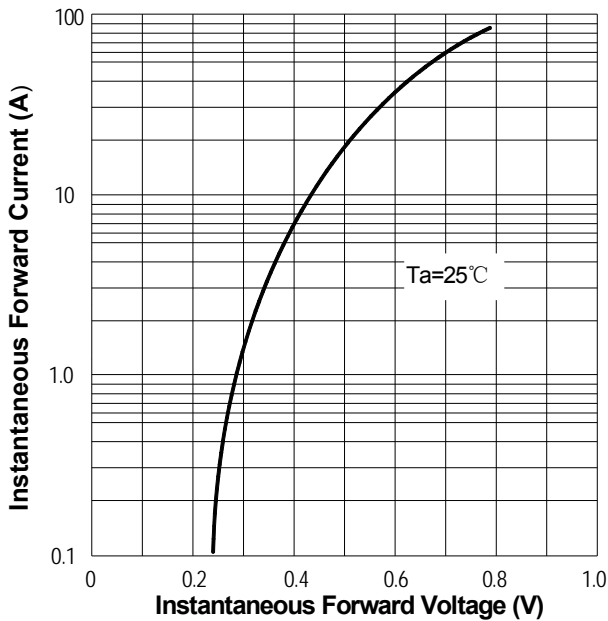
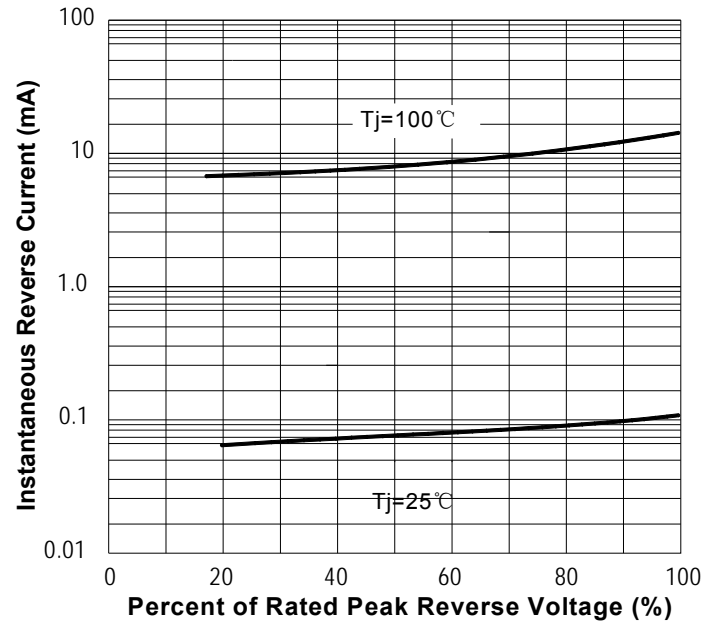


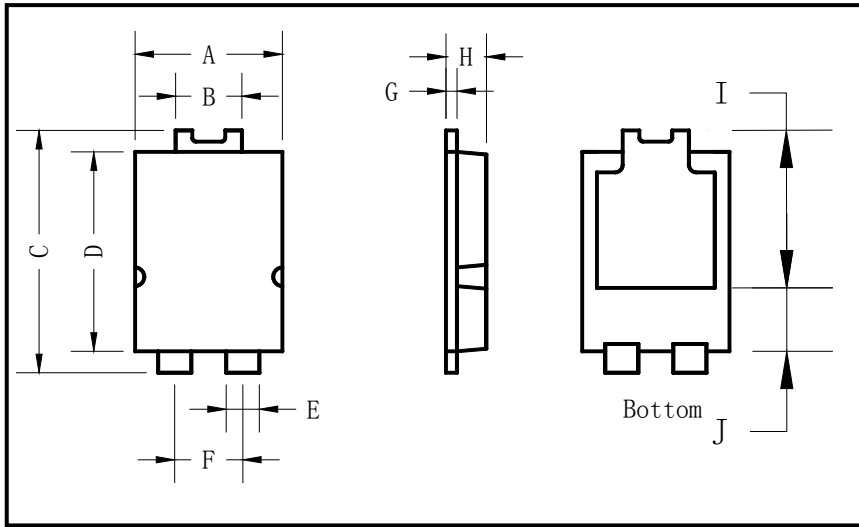
FIG.4: Typical Reverse Characteristics





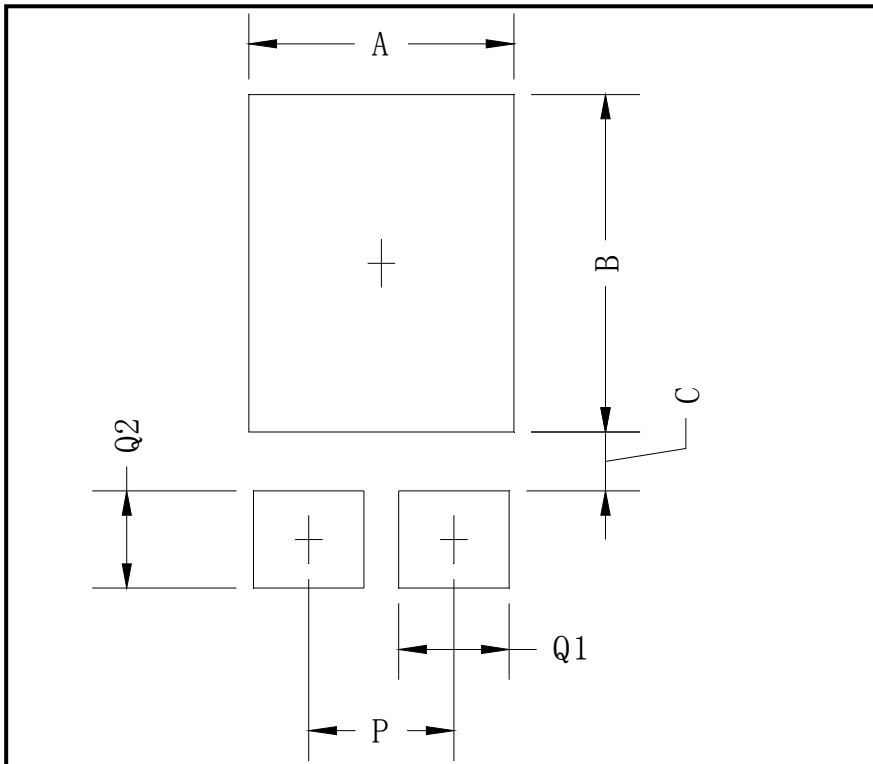
SS10U45

■ 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



SS10U45

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