



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 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 _c =110	I _O	A	8
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave, 1 cycle, T _a =25	I _{FSM}	A	150
Current Squared Time @1ms≤t≤8.3ms T _j =25	I ² t	A ² s	93
Storage Temperature	T _{stg}		-55 ~+150
Junction Temperature	T _j		-55 ~+150

■Electrical Characteristics T_a=25 Unless otherwise specified

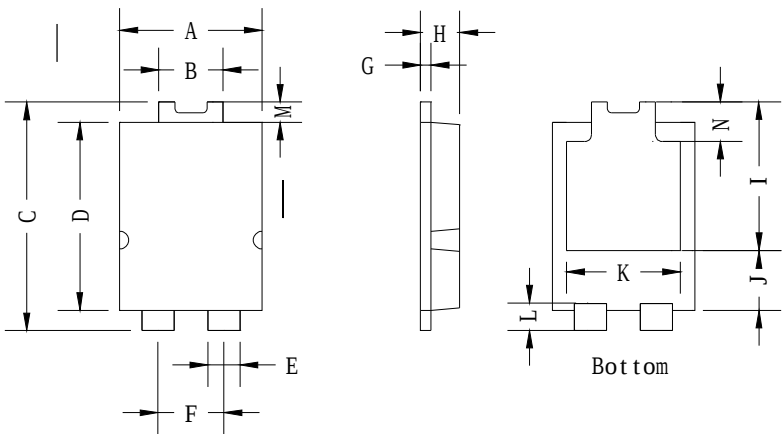
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	V _{FM}	V	I _{FM} =8.0A, T _j =25	-	0.55	0.65
			I _{FM} =8.0A, T _j =125	-	0.50	0.58
Reverse Breakdown Voltage	V _{BR}	V	I _R =0.5mA	100	-	-
Leakage Current	I _R	mA	V _R =100V T _j =25	-	-	0.5
			V _R =100V T _j =100	-	-	50

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

Note2: Pulse test: pulse width 40ms



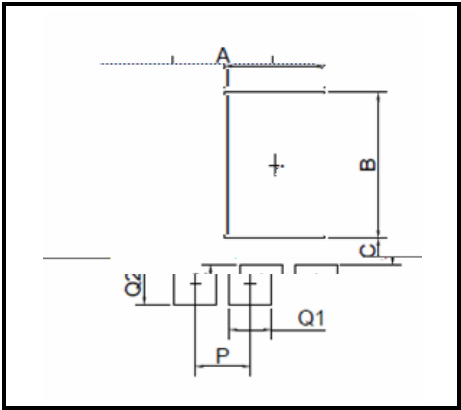
■ Outline Dimensions



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

—M1.5. 0 0. 5. . 0

■ Suggested pad layout



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



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