



## 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 $T_j=25$	$I^2t$	A <sup>2</sup> 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

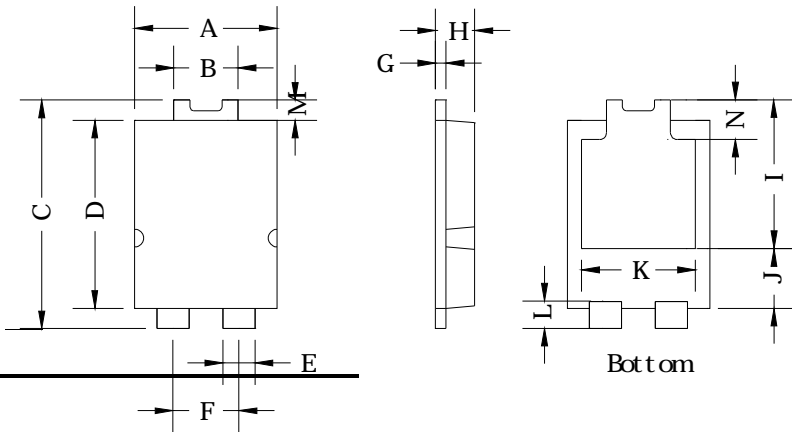
Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



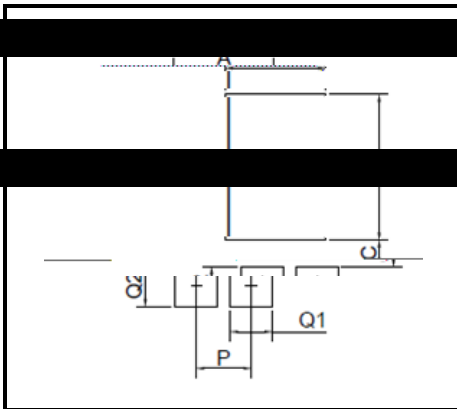


Outline Dimensions



TO-277		
Dim	Min(mm)	Max(mm)
A		
B	1.70	1.90
C	6.40	6.60

Suggested pad layout



A	3.36
B	4.86
C	6.35
P	1.84
Q1	1.40
Q2	1.40



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