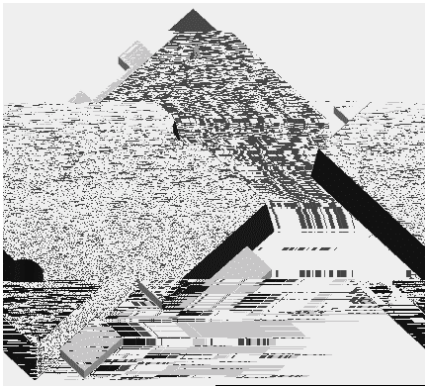




Schottky Rectifier

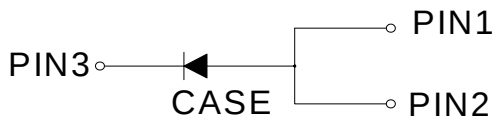


Features

- Ideal for automated placement
- Low power losses
- High efficiency

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°C Unless otherwise specified)

PARAMETER	Symbol	Unit	SS15U45
Device marking code			SS15U45
Repetitive Peak Reverse Voltage	V_{RRM}	V	45
Average Rectified Output Current @60Hz -sine wave, R- load, Tc=65	I_O	A	15
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Ta=25	I_{FSM}	A	275

Current Squared Time @1ms≤t≤8. @ 0.1s≤t≤1s

	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=15.0A, T_j=25$	-	0.43	0.47
			$I_{FM}=15.0A, T_j=125$	-	0.37	0.40
Reverse Breakdown Voltage	V_{BR}	V	$I_R=0.5mA$	45	-	-
Leakage Current	I_R	mA	$V_R=45V, T_j=25$	-	-	0.5
			$V_R=45V, T_j=100$	-	-	100

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

Note2: Pulse test: pulse width 40mS



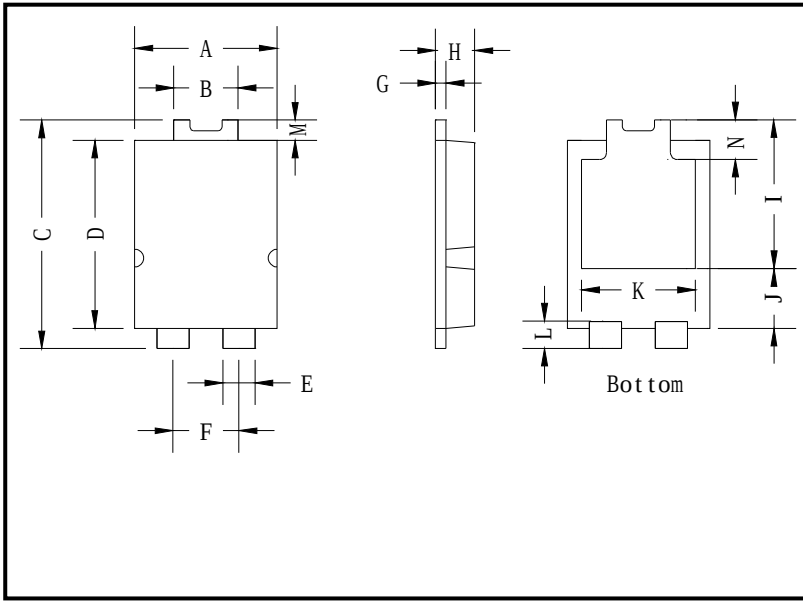
SS15U45

■ Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	SS15U45
Thermal Resistance	Junction to Case	$R_{\theta J-C}$	/W	8

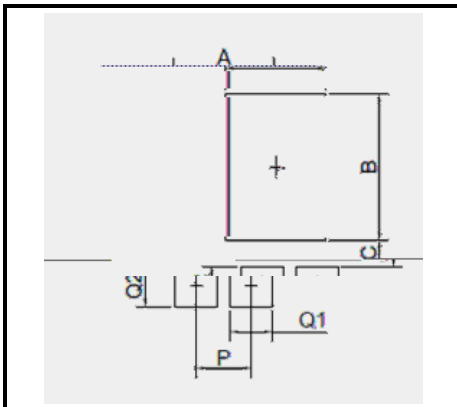


■ Outline Dimensions



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
E	0.80	1.00
F	1.85 ref.	
G	0.35	0.45
H	1.10	1.20
I	4.10	4.50
J	1.50	1.90
K	2.90	3.40
L	0.55	0.75
M	0.50 ref.	
N	1.15 ref.	

■ Suggested pad layout



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

