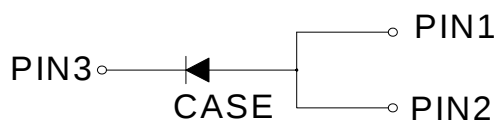
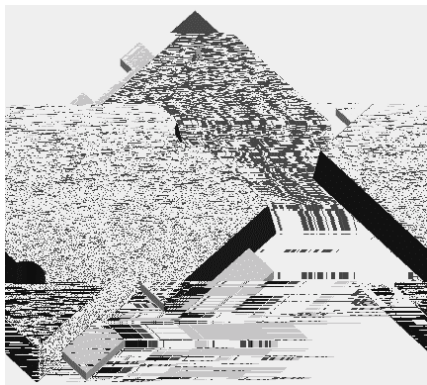




Features

- Ideal for automated placement
- Low power losses
- $H = \frac{2t^2}{i}$

† 4



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	Min	Max	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

$$\} \quad \text{MI}''$$

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Static Characteristics			$I_{AS} = 15.0A, T_j = 25$	-	0.43	0.47
			$I_{AS} = 15.0A, T_j = 125$		0.27	0.40
			$T_R = 0.5mA$	45	-	-
			$V_{AS} = 45V, T_j = 25$	-	-	0.5
			$V_{AS} = 45V, T_j = 100$	-	-	100



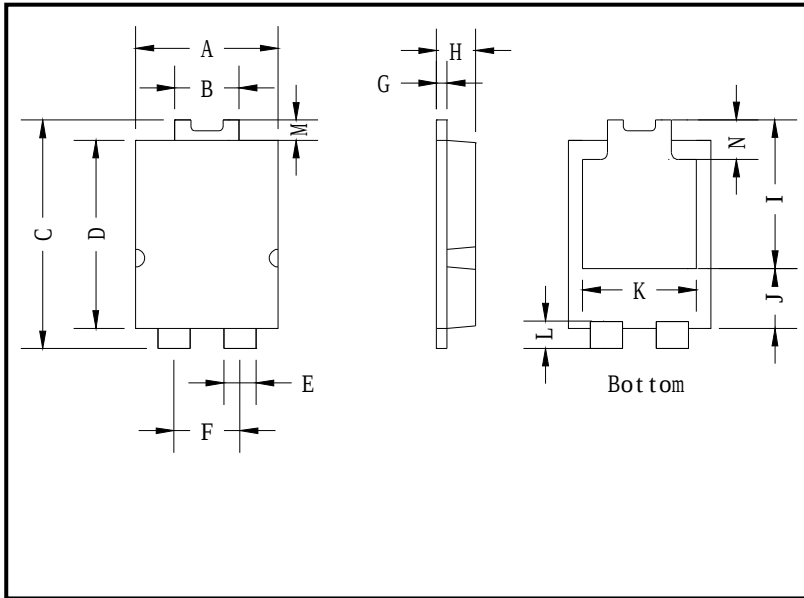
SS15U45

■ Thermal Characteristics $T_a=25$ Unless otherwise specified

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

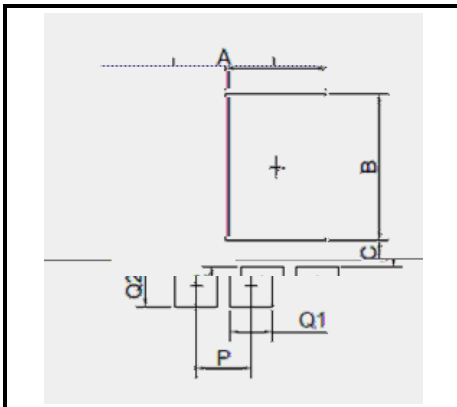


■ Outline Dimensions



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

