Low V_F Silicon Power Schottky Diode
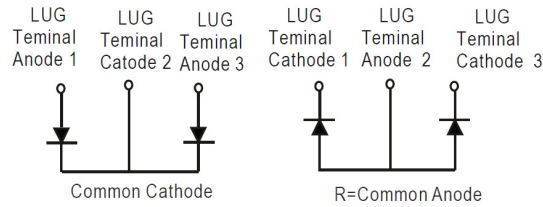
V_{RRM} = 35 V

$I_{F(AV)}$ = 600 A

Features

- High Surge Capability
- Type 35 V V_{RRM}
- Isolation Type Package
- Electrically Isolated Base Plate
- Not ESD Sensitive

Three Tower Package

LUG Teminal Anode 1   LUG Teminal Catode 2   LUG Teminal Anode 3   LUG Teminal Cathode 1   LUG Teminal Anode 2   LUG Teminal Cathode 3

Common Cathode

R=Common Anode

RoHS COMPLIANT

REACH COMPLIANCE

Maximum ratings, at T_j = 25 °C, unless otherwise specified ("R" devices have leads reversed)

Parameter	Symbol	Conditions	MBRT60035(R)L	Unit
Maximum recurrent peak reverse voltage	V_{RRM}		35	V
Maximum RMS voltage	V_{RMS}		25	V
Maximum DC blocking voltage	V_{DC}		35	V
Operating temperature	T_j		-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	°C

Electrical characteristics, at Tj = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	MBRT60035(R)L	Unit
Average forward current (per pkg)	$I_{F(AV)}$	T_C = 100 °C	600	A
Peak forward surge current (per leg)	I_{FSM}	t_p = 8.3 ms, half sine	4000	A
Maximum instantaneous forward voltage (per leg)	V_F	I_{FM} = 300 A, Tj = 25 °C	0.60	V
Maximum instantaneous reverse current at rated DC blocking voltage (per leg)	I_R	T_j = 25 °C	3	mA
		T_j = 100 °C	300	

Thermal characteristics

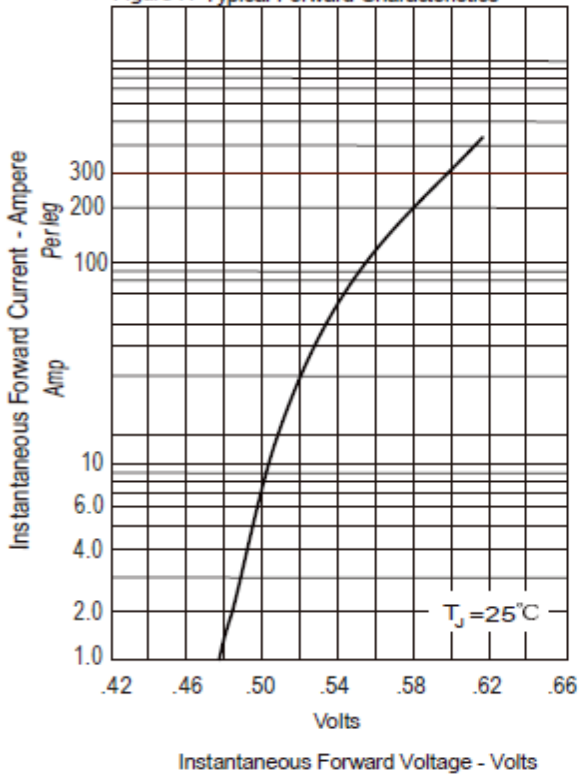| Parameter	Symbol	Conditions	MBRT60035(R)L	Unit
Maximum thermal resistance, junction - case (per leg)	$R_{\Theta JC}$		0.28	°C/W

Figure .1-Typical Forward Characteristics

Instantaneous Forward Voltage - Volts

$T_J = 25°C$

Figure .2- Forward Derating Curve

Single Phase, Half Wave
60Hz Resistive or Inductive Load

Case Temperature - °C

Figure.3-Peak Forward Surge Current

8.3ms Single Half
Sine Wave
JEDEC method $T_J = 25°C$

Number Of Cycles At 60Hz - Cycles

Figure .4-Typical Reverse Characteristics

$T_j = 100°C$

$T_J = 25°C$

Volts
Reverse Voltage - Volts(%)
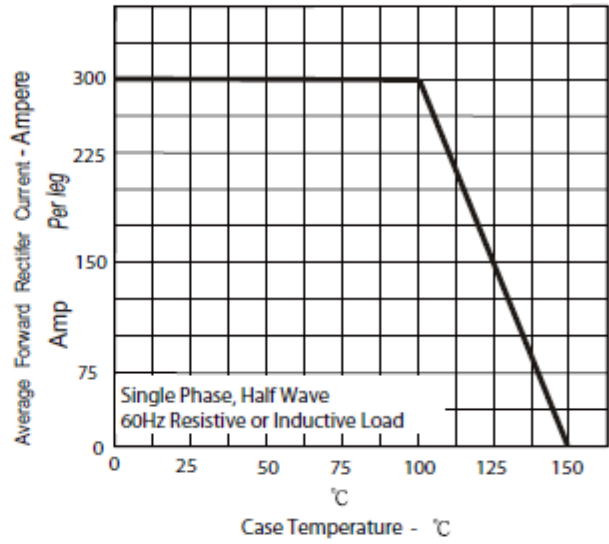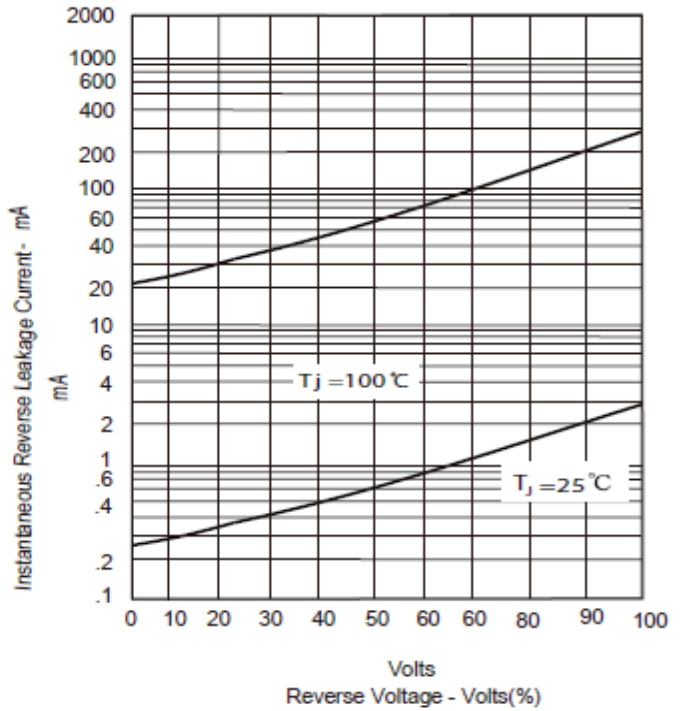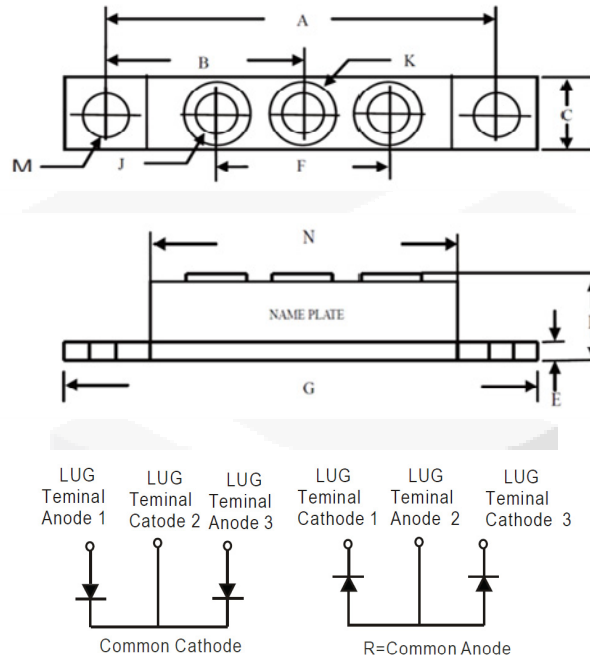
Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.

DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	3.150	NOM	80.01	NOM
B	1.565	1.585	39.75	40.26
C	.700	.800	17.78	20.32
E	.119	.132	3.02	3.35
F	1.327	REF	33.72	REF
G	3.55	3.65	90.17	92.71
H	-----	.73	-----	18.30
J	1/4-20 UNC FULL			
K	.472	.511	12	13
M	.275	.295	6.99	7.49
N	2.38	2.46	60.5	62.5