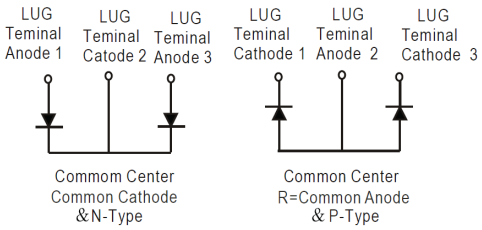
Silicon Power Schottky Diode

V_{RRM} = 45 V - 100 V

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

Features

- High Surge Capability
- Types from 45 V to 100 V V_{RRM}
- Isolation Type Package
- Electrically Isolated Base Plate
- Not ESD Sensitive



Three Tower Package



RoHS COMPLIANT

REACH COMPLIANCE

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

Parameter	Symbol	Conditions	MBRT60045(R)	MBRT60060(R)	MBRT60080(R)	MBRT600100(R)	Unit
Repetitive peak reverse voltage	V_{RRM}		45	60	80	100	V
RMS reverse voltage	V_{RMS}		32	42	56	70	V
DC blocking voltage	V_{DC}		45	60	80	100	V
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

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

Parameter	Symbol	Conditions	MBRT60045(R)	MBRT60060(R)	MBRT60080(R)	MBRT600100(R)	Unit
Average forward current (per pkg)	$I_{F(AV)}$	T_C =125 °C	600	600	600	600	A
Peak forward surge current (per leg)	I_{FSM}	t_p = 8.3 ms, half sine	4000	4000	4000	4000	A
Maximum instantaneous forward voltage (per leg)	V_F	I_{FM} = 300 A, T_j = 25 °C	0.75	0.80	0.84	0.84	V
Maximum Instantaneous reverse current at rated DC blocking voltage (per leg)	I_R	T_j = 25 °C	1	1	1	1	mA
		T_j = 100 °C	10	10	10	10	
		T_j = 150 °C	50	50	50	50	
Thermal characteristics							
Maximum thermal resistance, junction - case (per leg)	$R_{\Theta JC}$		0.28	0.28	0.28	0.28	°C/W

Figure.1-Typical Forward Characteristics

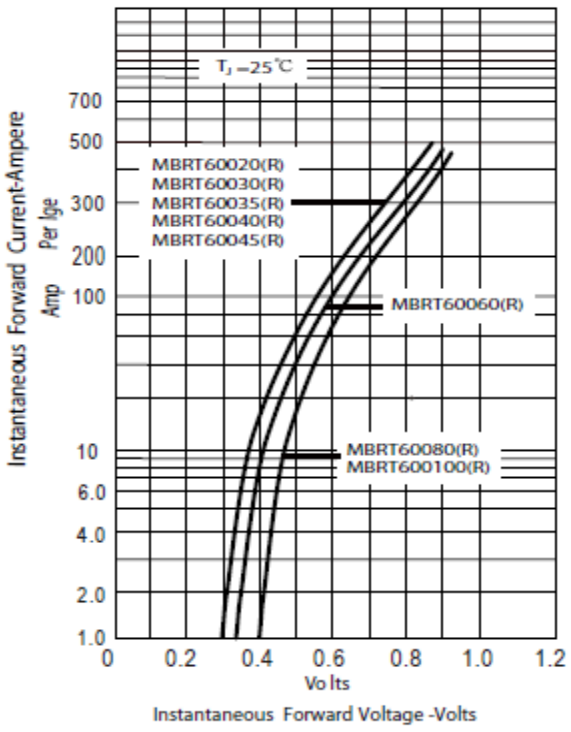
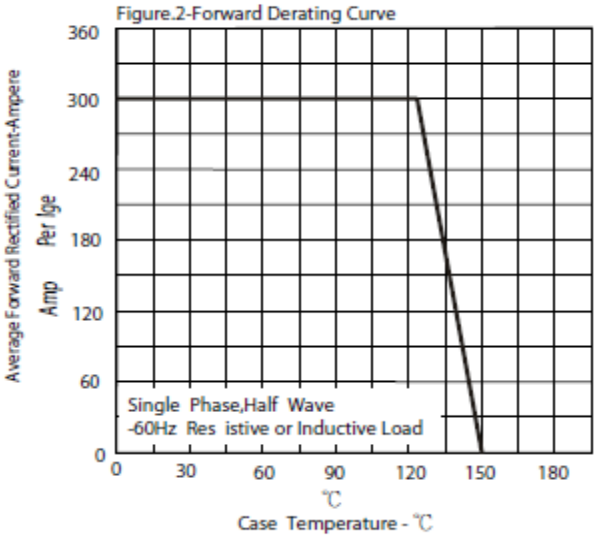


Figure.2-Forward Derating Curve



Figupre.3-Peak Forward Surge Current

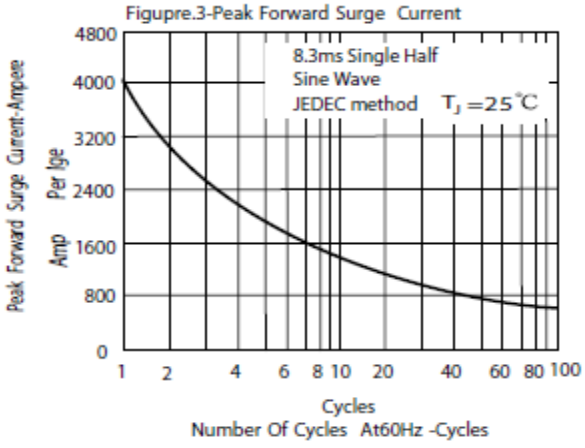
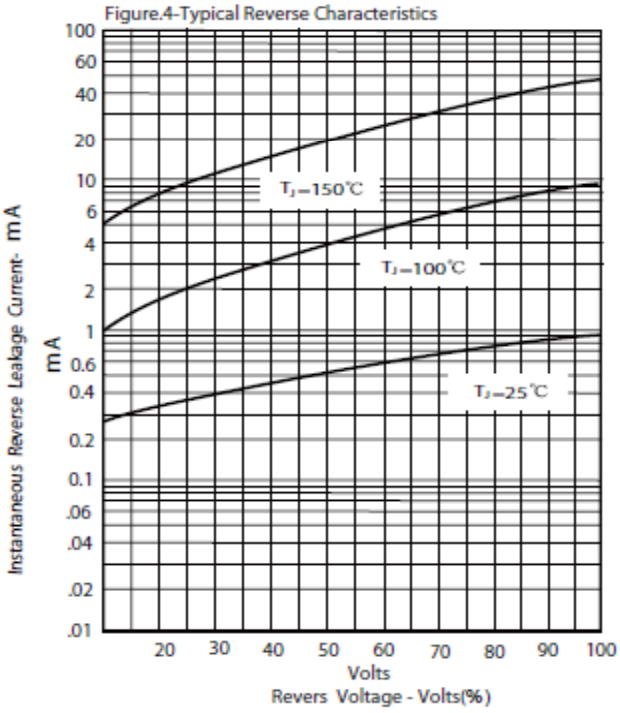
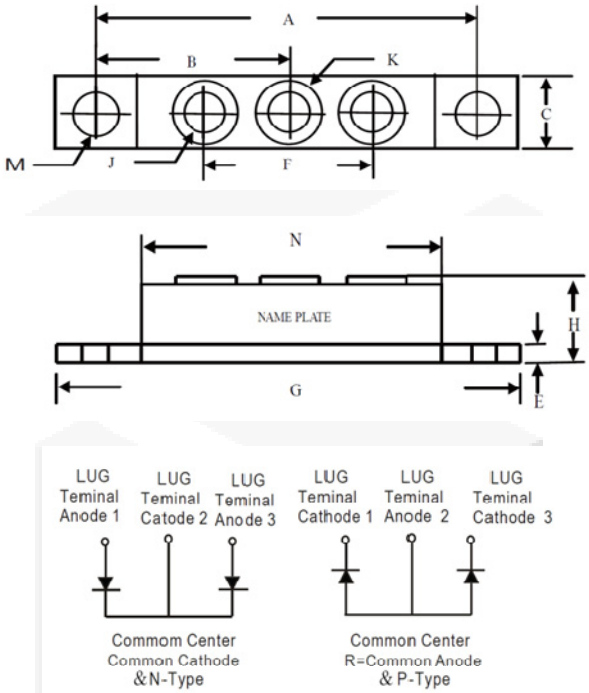


Figure.4-Typical Reverse Characteristics



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