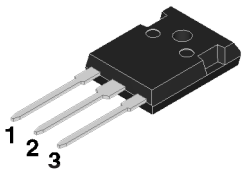
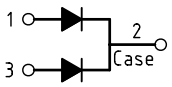
60 Amp. Schottky Barrier Rectifier

TO-3P





Common Cathode
Suffix "C"

Voltage	Current
60V-100 V	60 A

- Metal silicon junction, majority carrier conduction
- High current capability
- The plastic material U/L recognition 94 V-0
- Terminals: Leads solderable per MIL-STD202
- Low forward Voltage drop

Absolute Maximum Ratings, according to IEC publication No. 134

		MBR6060PT	MBR60100PT
V_{RRM}	Peak recurrent reverse voltage (V)	60	100
V_{RMS}	Maximum RMS voltage (V)	42	70
V_{DC}	Maximum DC blocking voltage (V)	60	100
$I_{F(AV)}$	Maximum average Forward current at T_C = 125 ℃ (both diodes conducting)	60 A	
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	420 A	
I_{RRM}	Peak repetitive reverse surge current	1.0 A	
T_j	Operating temperature range	– 65 to + 150 ℃	
T_{stg}	Storage temperature range	– 65 to + 175 ℃	

Electrical Characteristics

			MBR6060PT	MBR60100PT
V_F	Max. Inst. Reverse Current @Tc = 25 ℃ at Rated DC Blocking Voltage Per Leg @Tc = 125℃ (Note 1)		0.75 V	0.84 V
			0.65 V	0.74 V
I_R	Max. Instantaneous reverse current at $V_R = V_{RRMax}$	T_j = 25 ℃	1.0 mA	
		T_j = 125 ℃	20 mA	10 mA
R_{thj-C}	Typical Thermal Resistance		1.2 ℃/W	

Note 1: 2.Ous Pulse Width, f=1.0KHz

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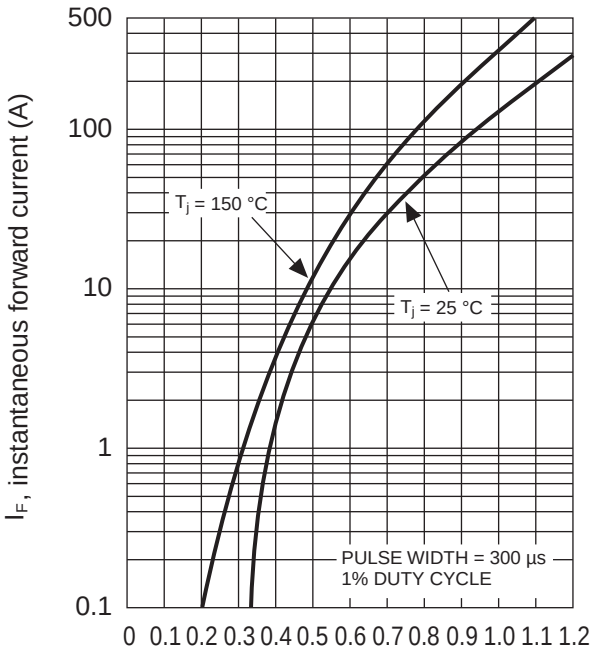
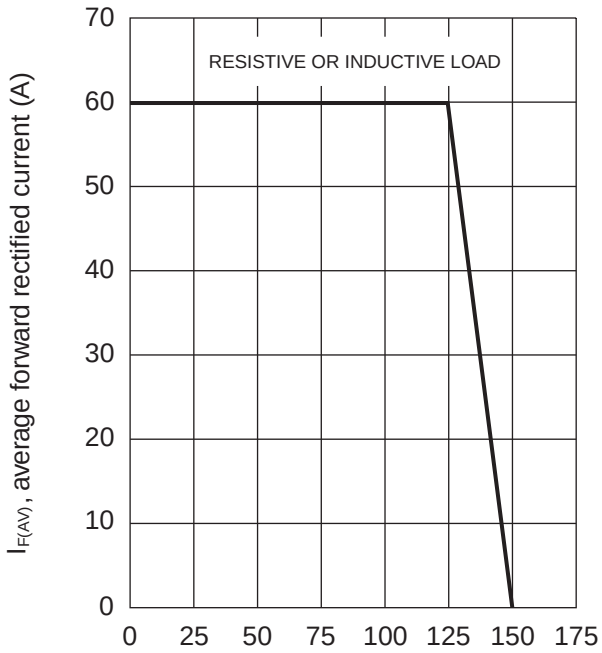
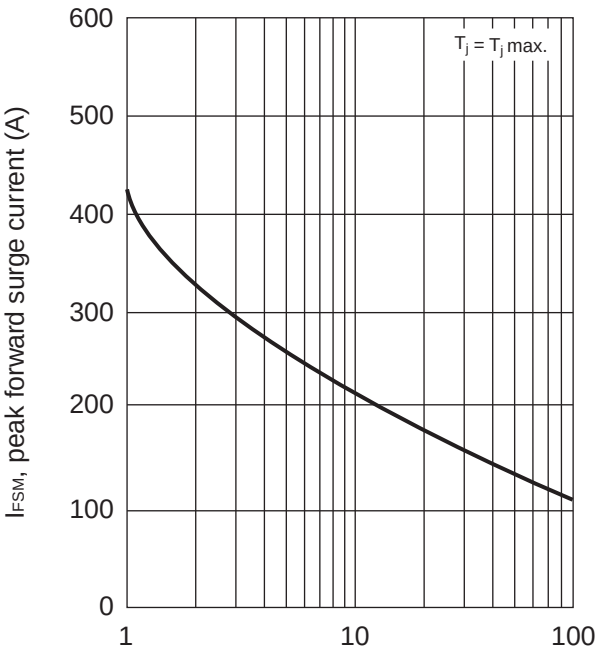
TYPICAL FORWARD CHARACTERISTIC



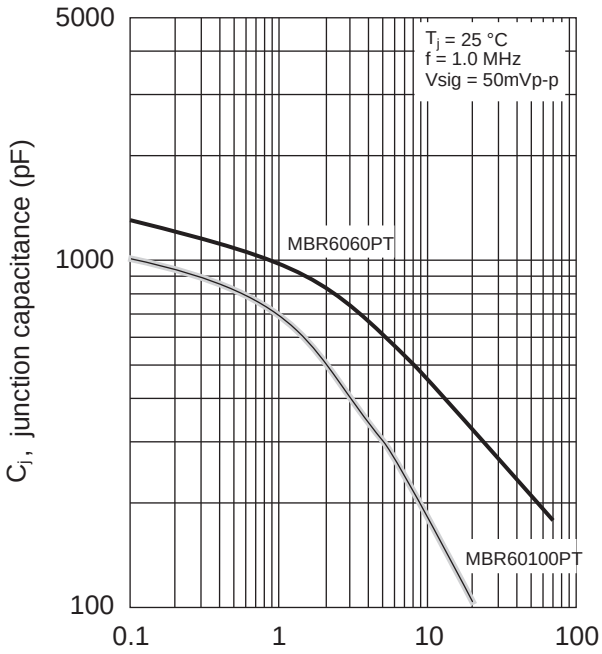
FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



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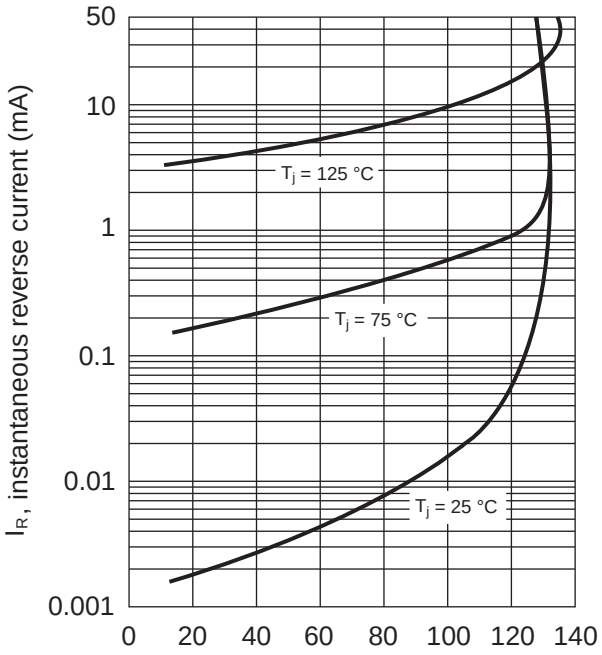
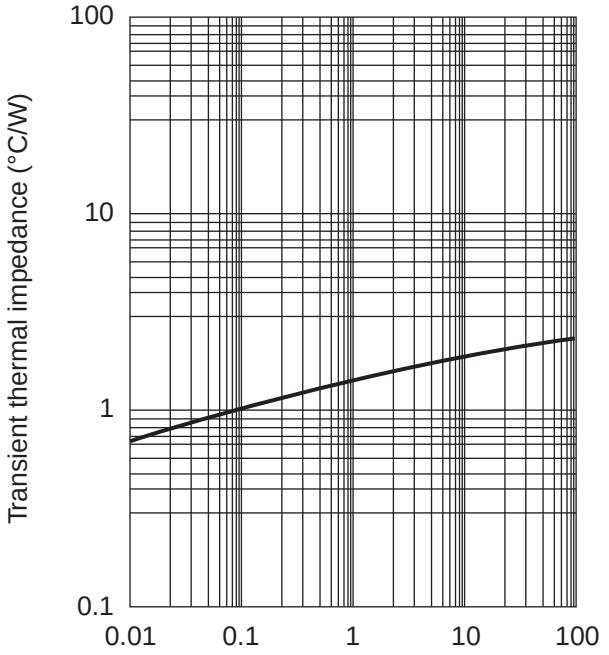
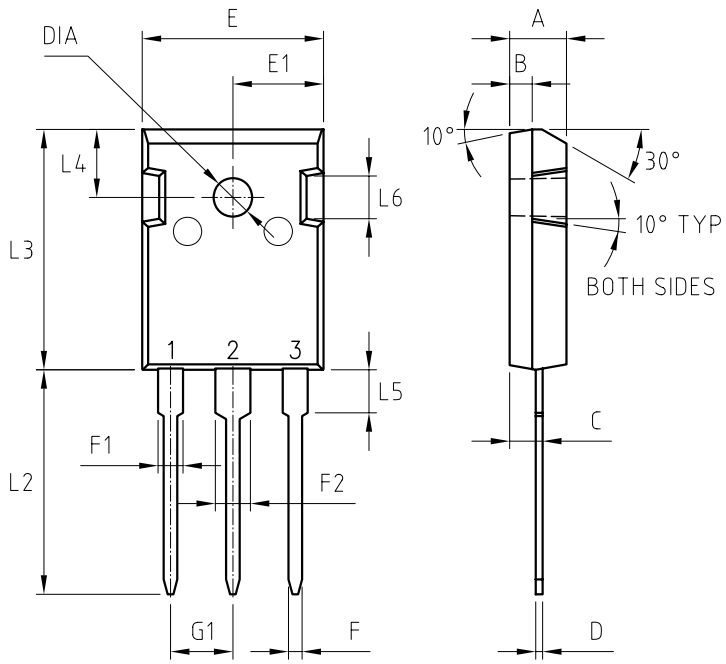
TYPICAL REVERSE CHARACTERISTIC



TYPICAL TRANSIENT THERMAL IMPEDANCE



PACKAGE MECHANICAL DATA TO-3P



REF.	DIMENSIONS		
	Milimeters		
	Min.	Nominal	Max.
A	4.90		5.16
B		1.98	
C	2.7		3.0
D	0.51		0.76
E	15.9		16.4
E1	7.9		8.2
F	1.12		1.22
F1	1.93		2.18
F2	2.97		3.22
G1	5.2		5.7
L2	19.7		20.2
L3	20.8		21.3
L4	5.7		6.2
L5	3.5		4.1
L6		4.3	
DIA	2.9		3.4