

### Thermal-Mechanical Specifications

Parameters	Symbol	Test Conditions	Max	Unit
Junction Temperature Range	$T_J$		-55 to +150	°C
Storage Temperature Range	$T_{stg}$		-55 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{thJC}$	DC operation	1.0 (Per device) 0.5 (Per device)	°C/W
Maximum Thermal Resistance, Case to Heat Sink	$R_{thCS}$	Mounting surface, smooth and greased	0.24	°C/W
Approximate Weight	wt		6.7	g
Case Style	TO-247AD			

Figure 1: Typical Forward Characteristics

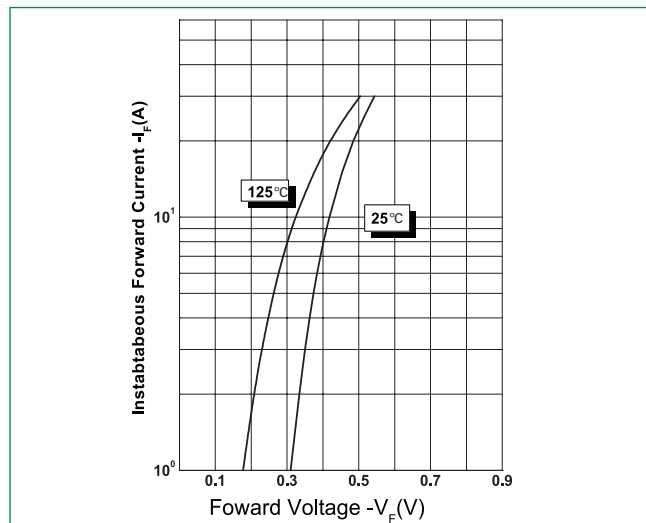


Figure 2: Typical Reverse Characteristics

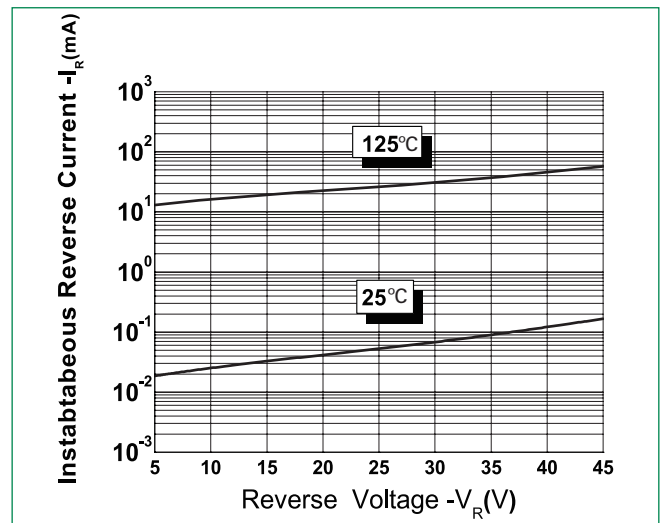
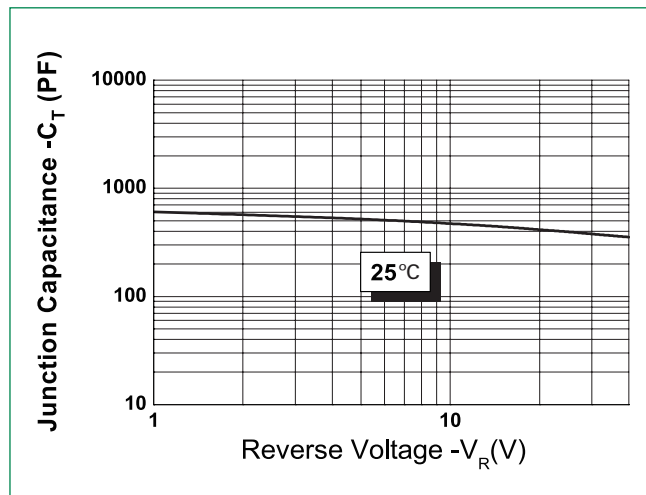
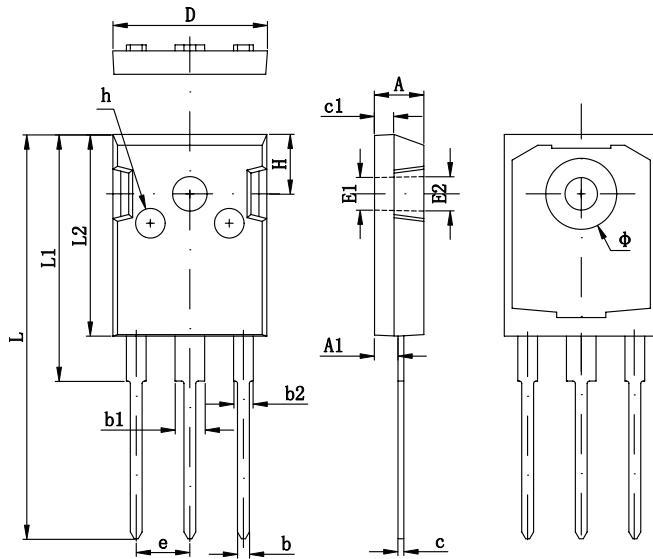


Figure 3: Typical Junction Capacitance



### Dimensions- TO-247AD



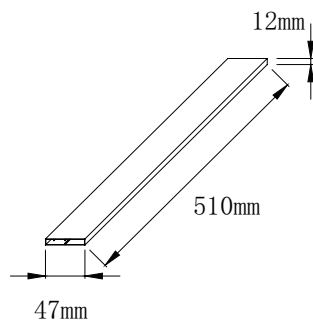
Symbol	Millimeters	
	Min	Max
A	4.70	5.31
A1	2.21	2.61*
A2	1.50	2.49
b	0.99	1.40
b1	1.65	2.39
b2	2.59	3.43
c	0.38	0.89
D	20.30*	21.46
D1	13.08	-
D2	0.51	1.35
E	14.80*	16.26
E1	13.46	-
E2	4.32	5.49
E3	1.45*	2.74
e	5.461 BSC	
L	19.42*	20.85*
L1	-	4.60*
P	3.35*	3.70*
P1	-	7.40*
Q	5.38	6.20
S	5.83*	6.25*

Footnote \*: The spec. does not comply with JEDEC spec.

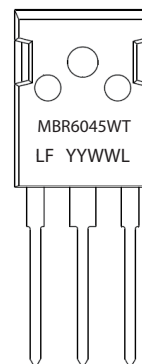
### Packing Options

Part Number	Marking	Packing Mode	M.O.Q
MBR6045WT	MBR6045WT	30pcs / Tube	300

### Tube Specification



### Part Numbering and Marking System



MBR = Device Type  
 60 = Forward Current (60A)  
 45 = Reverse Voltage (45V)  
 WT = Configuration  
 LF = Littelfuse  
 YY = Year  
 WW = Week  
 L = Lot Number