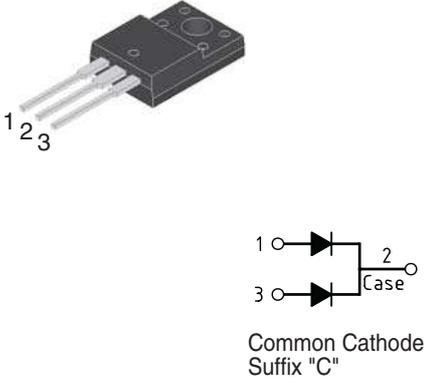


25 Amp. Schottky Barrier Rectifier

<h3>ITO-220AB</h3>  <p>Common Cathode Suffix "C"</p>	Voltage 45 to 150 V	Current 25 A
	<ul style="list-style-type: none"> • 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 power loss, high efficiency • Low forward Voltage drop 	

Absolute Maximum Ratings, according to IEC publication No. 134

		MBRF2545CT	MBRF2560CT	MBRF25100CT	MBRF25150CT
V_{RRM}	Peak recurrent reverse voltage (V)	45	60	100	150
V_{RMS}	Maximum RMS voltage (V)	31	42	70	105
V_{DC}	Maximum DC blocking voltage (V)	45	60	100	150
$I_{F(AV)}$	Maximum average Forward current at $T_C = 130\text{ }^\circ\text{C}$ Total device Per Leg	25 A 12.5 A			
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	200 A			
I_{RRM}	Peak repetitive reverse surge current (Note 1)	1.0 A	0.5 A		
T_j	Operating temperature range	- 65 to + 150 °C			
T_{stg}	Storage temperature range	- 65 to + 175 °C			

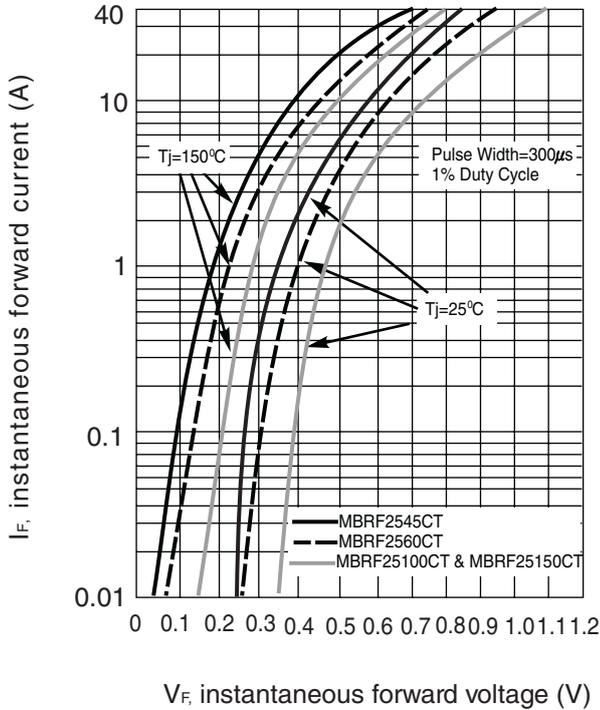
Electrical Characteristics

		MBRF2545CT	MBRF2560CT	MBRF25100CT	MBRF25150CT	
V_F	Max. forward voltage drop at $I_F = 12.5\text{ A}$ (Note 2)	$T_C = 25\text{ }^\circ\text{C}$	--	0.75 V	0.85 V	0.95 V
		$T_C = 125\text{ }^\circ\text{C}$	--	0.65 V	0.75 V	0.92 V
	Max. forward voltage drop at $I_F = 25\text{ A}$	$T_C = 25\text{ }^\circ\text{C}$	0.82 V	0.88 V	0.92 V	1.02 V
		$T_C = 125\text{ }^\circ\text{C}$	0.73 V	--	0.88 V	0.98 V
I_R	Max. Instantaneous reverse current at $V_R = V_{RRMmax}$ Per Leg	$T_C = 25\text{ }^\circ\text{C}$	0.20 mA		0.10 mA	
		$T_C = 125\text{ }^\circ\text{C}$	15.0 mA	10.0 mA	7.5 mA	5.0 mA
$R_{th(j-a)}$ $R_{th(j-c)}$	Typical Thermal Resistance (Note 3)	8.0 °C/W 1.0 °C/W				

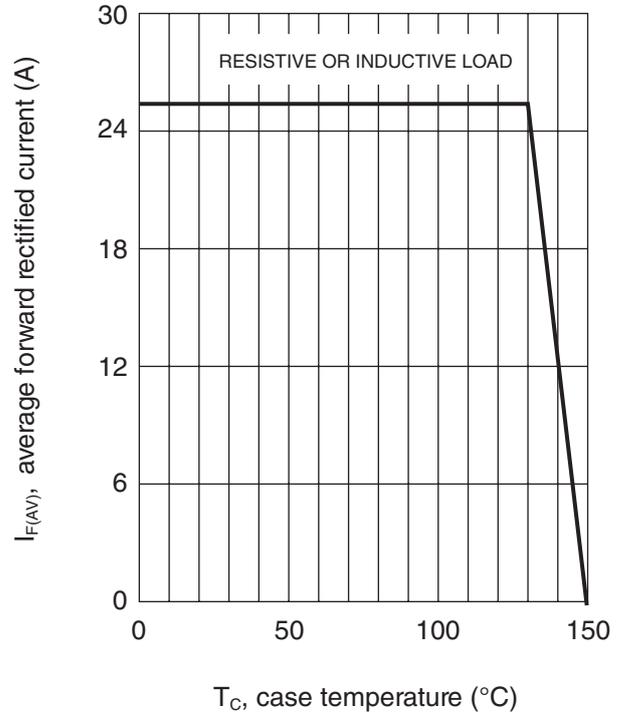
NOTES: 1. 2.0µs Pulse Width, $f = 1.0\text{ KHz}$
 2. Pulse Test Width $PW = 300\text{ }\mu\text{sec}$, 1% Duty Cycle
 3. Thermal Resistance from Junction to Case Per Leg, with Heatsink size (4"x6"x0.25") Al-Plate.

25 Amp. Schottky Barrier Rectifier

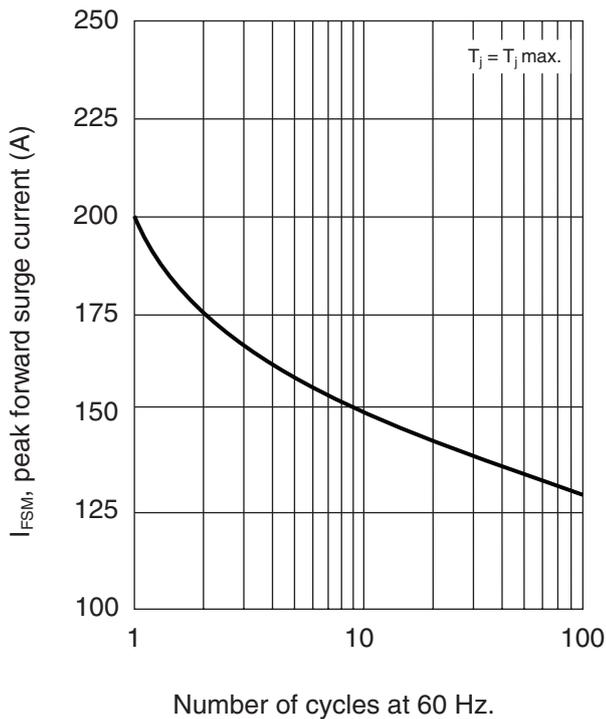
TYPICAL FORWARD CHARACTERISTIC



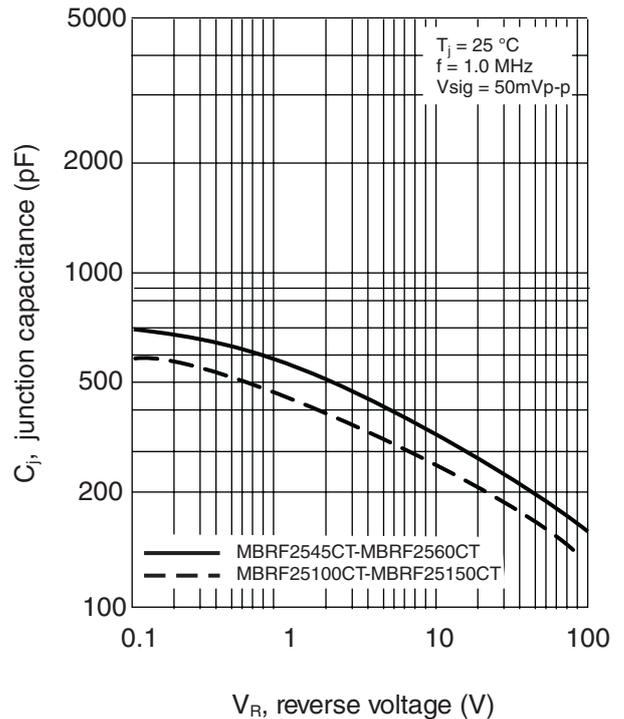
FORWARD CURRENT DERATING CURVE



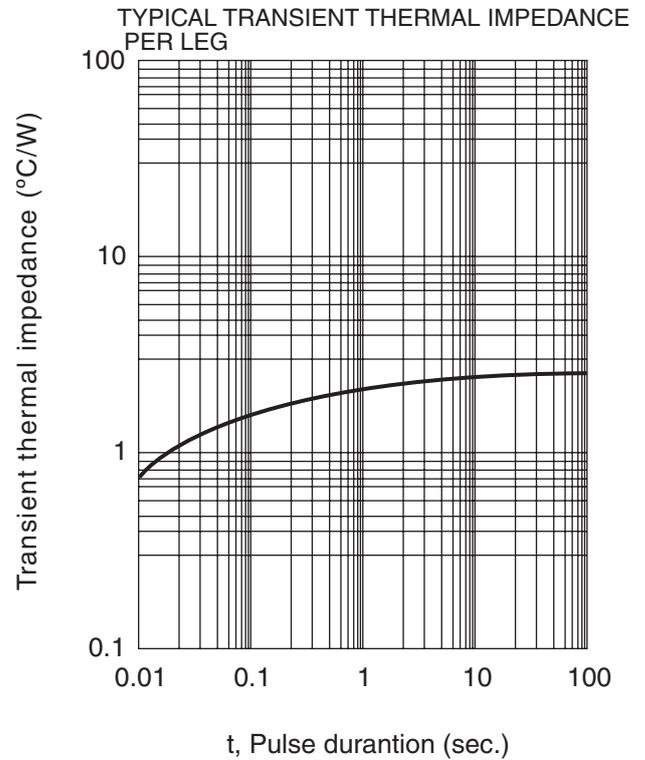
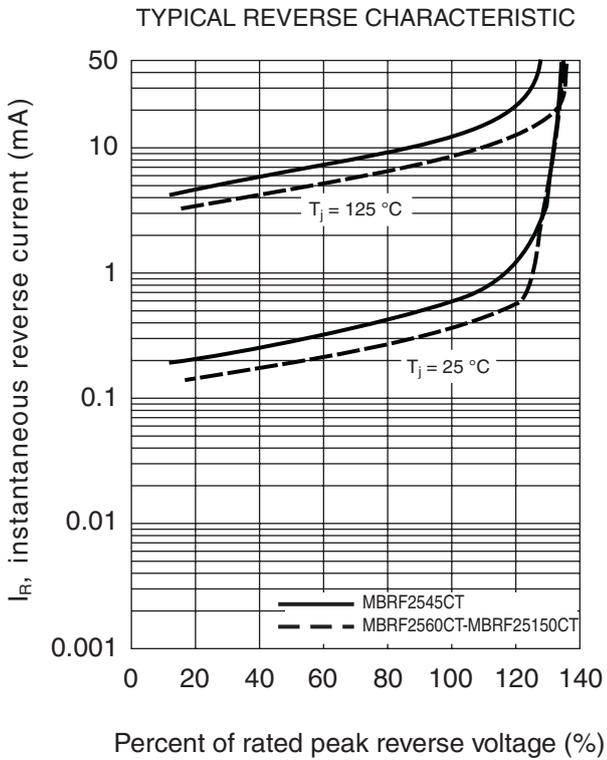
MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE

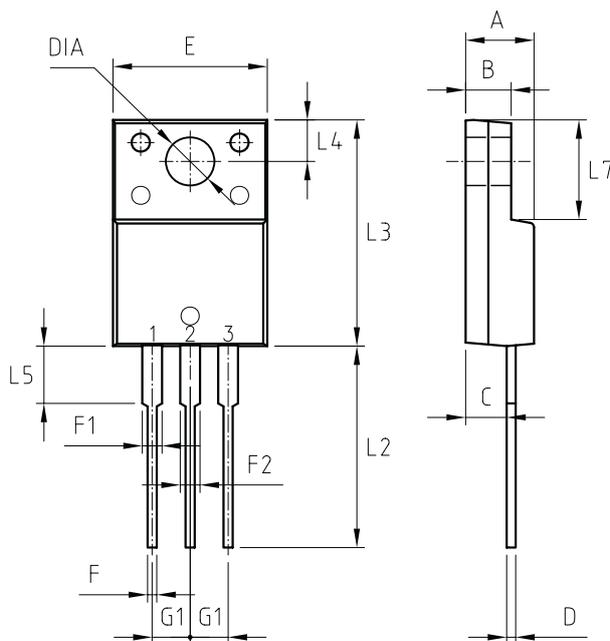


25 Amp. Schottky Barrier Rectifier



PACKAGE MECHANICAL DATA

ITO-220AB



REF.	DIMENSIONS		
	Milimeters		
	Min.	Nominal	Max.
A	4.4	-	4.7
B	3.0	-	3.16
C	2.5	-	2.8
D	0.5	-	0.76
E	9.9	-	10.3
F	0.5	-	0.9
F1	1.1	-	1.4
F2	-	-	1.8
G1	2.4	2.55	2.7
L2	13.2	-	13.8
L3	14.8	-	15.5
L4	2.55	-	2.85
L5	3.7	-	4.1
L7	6.3	-	6.9
DIA	3.0	-	3.4