Certificate Number: Q10561

Certificate Number: E17276

MBRF1535CT Series

Dual Schottky Barrier Rectifiers

PRV : 35 - 60 Volts
Io : 15 Ampere

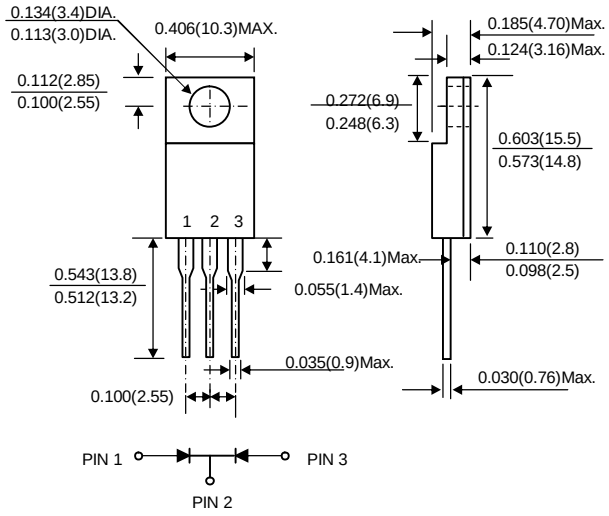
FEATURES :

* Dual rectifier construction, positive center tap
* Metal silicon junction, majority carrier conduction
* Low power loss, high efficiency
* For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
* Pb / RoHS Free

MECHANICAL DATA :

* Case : Epoxy, Molded
* Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
* Polarity: As marked
* Mounting Position: Any
* Weight : 2.24 grams (Approximately)

ITO-220AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Ta =25°C unless otherwise specified.)

RATING	SYMBOL	MBRF1535CT	MBRF1545CT	MBRF1550CT	MBRF1560CT	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	35	45	50	60	V
Maximum Working peak reverse voltage	V_{RMS}	35	45	50	60	V
Maximum DC Blocking Voltage	V_{DC}	35	45	50	60	V
Maximum Average Forward Current, Tc = 105°C	$I_{F(AV)}$	15 (Tatal Device)				A
		7.5 (Per Leg)				
Peak repetitive forward current at TC = 105°C (rated V_R, 20 KHz sq. wave)	I_{FRM}	15				A
Maximum Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) at Tc = 100°C	I_{FSM}	150				A
Maximum Instantaneous Forward Voltage per Leg at I_F = 7.5A, Tc =25 °C	V_F	-		0.75		V
I_F = 7.5A,Tc = 125°C		0.57		0.65		
I_F = 15A,Tc = 25°C		0.84		-		
I_F = 15A, Tc = 125°C		0.72		-		
Maximum Reverse Current per Leg Tc = 25°C	I_R	0.1		1.0		mA
at Rated DC Blocking Voltage Tc = 125°C	$I_{R(H)}$	15		50		mA
Maximum Thermal Resistance, Junction to Case	RθJC	5.0				°C/W
Operating Junction Temperature Range	T_J	- 65 to + 150				°C
Storage and Temperature Range	T_{STG}	- 65 to + 175				°C

RATING AND CHARACTERISTIC CURVES (MBRF1535CT Series)

FIG.1 - FORWARD CURRENT DERATING CURRENT

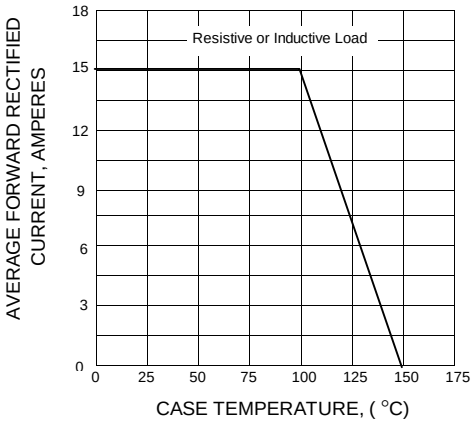


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

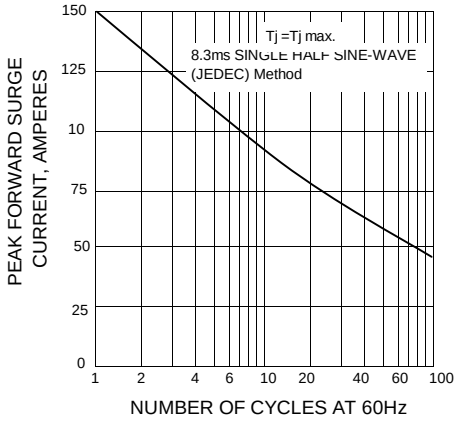


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

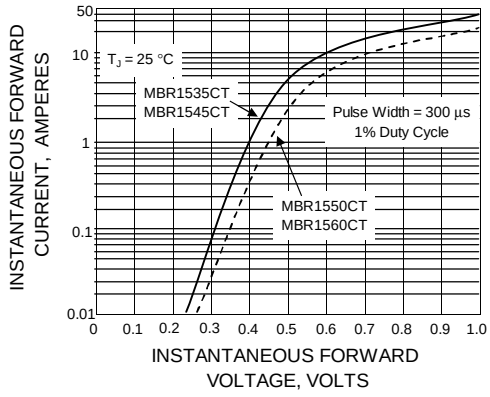


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

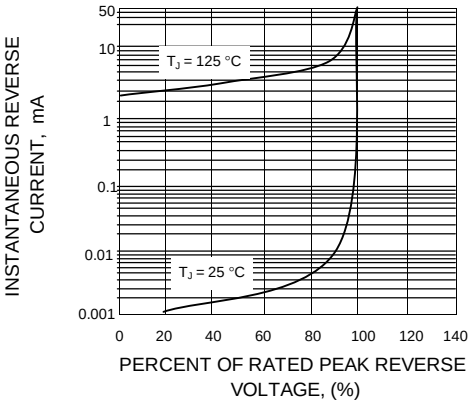


FIG. 5 – TYPICAL JUNCTION CAPACITANCE PER LEG