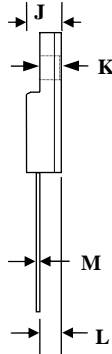
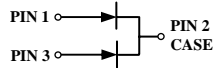
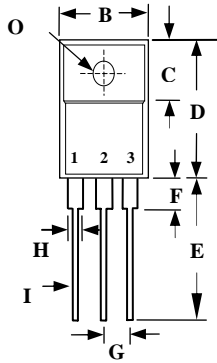


CTE

CoreTech Electronics Corp. 10A DUAL SCHOTTKY BARRIER RECTIFIERS

CASE : ITO-220AB(SR10xxxCTF) , FULLY INSULATED PACKAGE

**MBR10150FCT
AND
MBR10200FCT**



	MILLIMETERS	
	MIN	MAX
B	9.72	10.27
C	6.30	6.90
D	14.50	15.50
E	13.00	13.80
F	-	4.1
G	2.41	2.67
H	-	1.52
I	-	0.9
J	-	4.8
K	-	3.1
L	2.5	2.9
M	-	0.8
O	-	Ø 3.4

FEATURES

- EXTREMELY LOW VF
- LOW STORED CHARGE, MAJORITY CARRIER CONDUCTION
- LOW POWER LOSS / HIGH EFFICIENCY
- UL 94V0 FLAME RETARDANT EPOXY MOLDING COMPOUND
- LEAD FREE

MECHANICAL DATA

- CASE : TRANSFER MOLDED
- LEADS : SOLDERABLE PER MIL-STD-202,METHOD 208
- POLARITY : AS MARKED
- WEIGHT : 2.05 GRAMS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED
SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD.
FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

RATINGS	SYMBOL	MBR10150FCT	MBR10200FCT	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	150	200	V
MAXIMUM RMS VOLTAGE	V_{RMS}	105	140	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	150	200	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT SEE FIG.1 PER LEG	I_O	10.0 5.0		A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD PER LEG	I_{FSM}	150		A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150		°C
OPERATING TEMPERATURE RANGE	T_j	- 55 TO + 150		°C

ELECTRICAL CHARACTERISTICS ($A_T T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	MBR10150FCT	MBR10200FCT	UNITS
MAXIMUM FORWARD VOLTAGE AT 5A PER LEG	V_F	0.85	0.90	V
MAXIMUM REVERSE CURRENT AT 25°C PER LEG (NOTE 1)	I_R	10		uA
MAXIMUM REVERSE CURRENT AT 125°C PER LEG (NOTE 1)	I_R	10		mA

THERMAL CHARACTERISTICS ($T_c = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

PARAMETER	SYMBOL	MBR10150FCT	MBR10200FCT	UNITS
TYPICAL THERMAL RESISTANCE JUNCTION TO CASE PER LEG	$R_{\theta jc}$	4.0		°C/W

NOTES : 1. PULSE TEST: 300µS PULSE WIDTH, 1% DUTY CYCLE

2.TERMAL RESISTANCE JUNCTION TO CASE.

3.MEASURED AT 1.0 MHz AND APPLIED REVERSE VOLTAGE OF 4.0V DC.

RATINGS AND CHARACTERISTIC CURVES OF MBR10150FCT AND MBRF10200FCT

FIG. 1 - FORWARD CURRENT DERATING CURVE

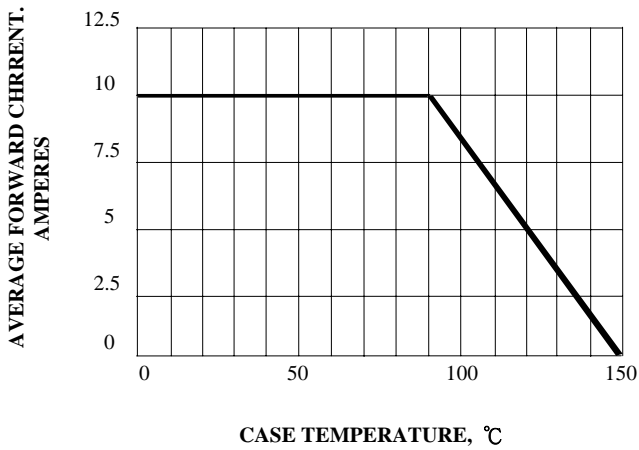


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

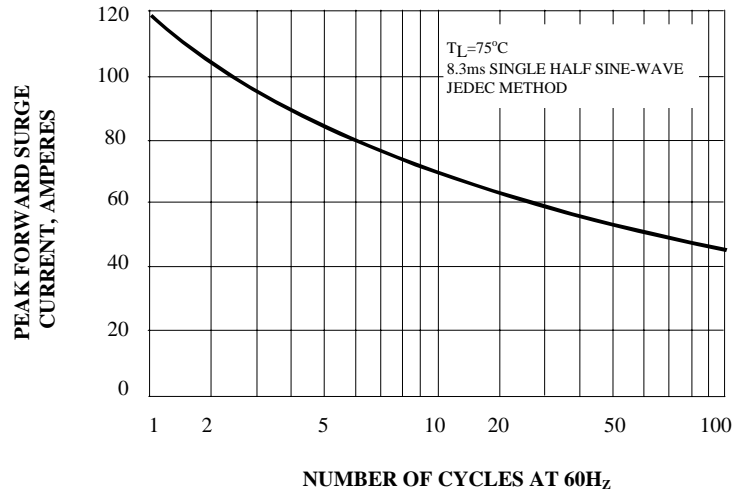


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

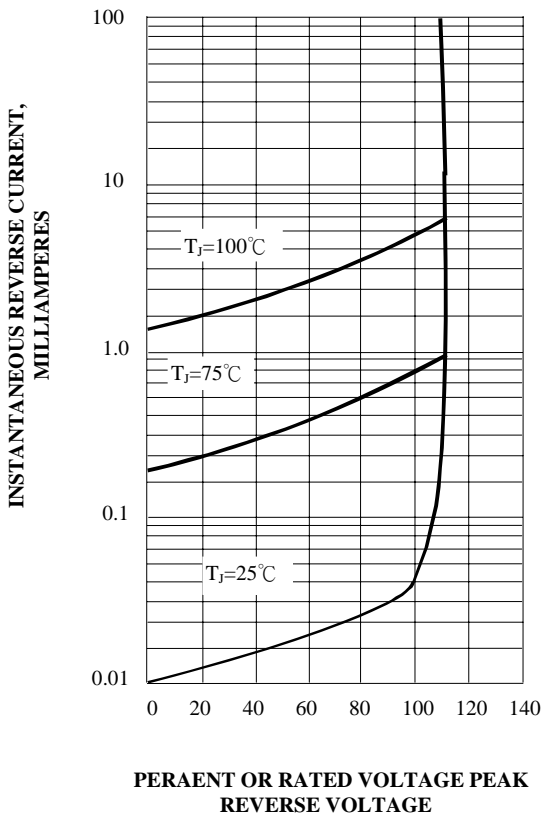


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

