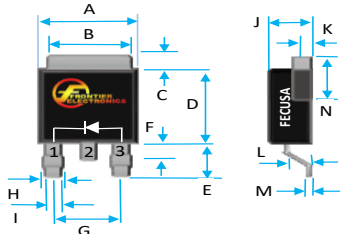


## 10A DUAL SCHOTTKY BARRIER RECTIFIERS



Dim.	Value in [mm]	
	Min.	Max.
A	0.250[6.35]	0.265[6.73]
B	0.175[4.44]	0.215[5.46]
C	0.030[0.76]	0.050[1.27]
D	0.235[5.97]	0.250[6.35]
E	0.102[2.59]	0.114[2.90]
F	0.020[0.51]	0.050[1.27]
G	0.085[2.16]	0.095[2.41]
H	0.037[0.94]	0.047[1.19]
I	0.027[0.69]	0.033[0.89]
J	0.086[2.18]	0.094[2.39]
K	0.033[0.84]	0.040[1.02]
L	0.034[0.86]	0.040[1.02]
M	0.018[0.46]	0.023[0.58]
N	0.138[3.51]	---

### PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. EXTREMELY LOW VF
3. LOW POWER LOSS/HIGH EFFICIENCY
4. LOW STORED CHARGE
5. MAJORITY CARRIER CONDUCTION
6. CASE: DPAK
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. POLARITY : AS MARKED
9. WEIGHT: 1.8 GRAMS
10. MIL-STD-202, METHOD 208
11. ROHS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO + 150°C. SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

RATINGS	SYMBOL	VALUE	UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT (SEE FIG.1)	IO	5	A
PK FWD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD PER LEG	IFSM	100	A
TYPICAL THERMAL RESISTANCE JUNCTION TO CASE AT 25°C PER LEG	Rqjc	2.43	°C/W
MAXIMUM FORWARD VOLTAGE AT 5.0A PER LEG	VF	0.55	V
MAXIMUM REVERSE CURRENT AT 25 °C (NOTE 1) PER LEG	IR	5000	uA
MAXIMUM REVERSE CURRENT AT 100 °C (NOTE 1) PER LEG	IR	50000	uA

PART NUMBER	MAXIMUM RECURRENT PEAK REVERSE VOLTAGE VRRM (V)	MAXIMUM RMS VOLTAGE VRMS (V)	MAXIMUM DC BLOCKING VOLTAGE VDC (V)
MBRD1020CT	20	14	20
MBRD1040CT	30	21	30
MBRD1040CT	40	28	40

## RATING AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

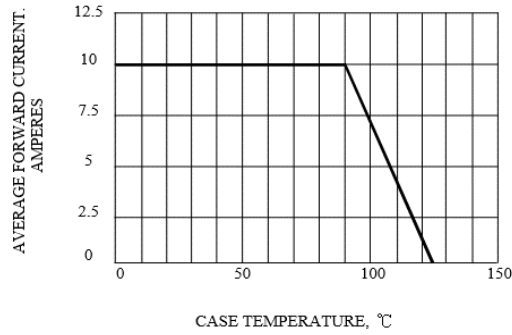


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

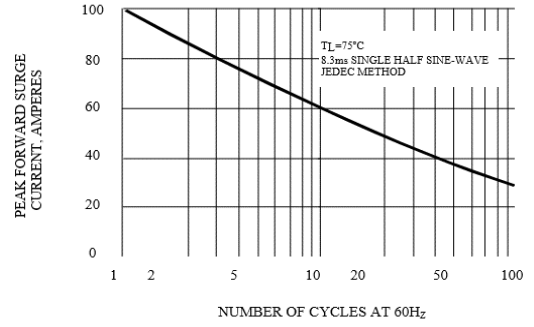


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

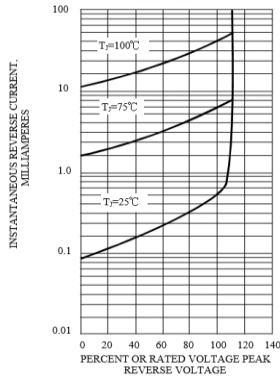


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

