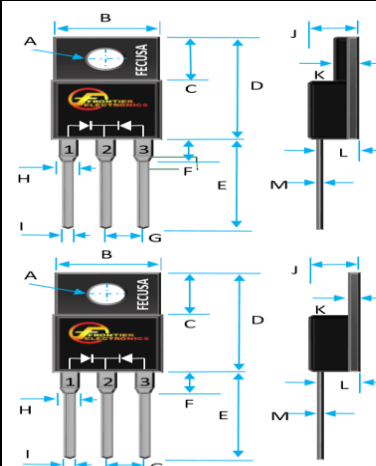


## 30A LOW VF TRENCH MOS SCHOTTKY RECTIFIERS



ITO-220AB		
Dim.	Value In[mm]	
	Min.	Max.
A	0.118[3.00]	0.134[3.40]
B	0.382[9.70]	0.404[10.26]
C	0.248[6.30]	0.272[6.91]
D	0.570[14.48]	0.610[15.49]
E	0.511[12.98]	0.543[13.79]
F	---	0.161[4.09]
G	0.095[2.41]	0.105[2.67]
H	---	0.060[1.52]
I	---	0.035[0.89]
J	---	0.189[4.80]
K	---	0.122[3.10]
L	0.098[2.49]	0.114[2.90]
M	---	0.031[0.79]

TO-220AB		
Dim.	Value In[mm]	
	Min.	Max.
A	0.141[3.58]	0.161[4.09]
B	0.382[9.70]	0.404[10.26]
C	0.248[6.30]	0.272[6.91]
D	0.570[14.48]	0.610[15.49]
E	0.511[12.98]	0.543[13.79]
F	---	0.161[4.09]
G	0.095[2.41]	0.105[2.67]
H	---	0.060[1.52]
I	---	0.035[0.89]
J	---	0.189[4.80]
K	0.043[1.09]	---
L	0.098[2.49]	0.114[2.90]
M	---	0.031[0.79]

### PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. EXTREMELY LOW VF
3. LOW POWER LOSS/HIGH EFFICIENCY
4. HIGH SURGE CAPABILITY
5. CASE:TO-220AB (CLIP)
6. DIMENSIONS IN INCHES AND (MILLIMETERS)
7. POLARITY : AS MARKED
8. WEIGHT: 2.15 GRAMS
9. MIL-STD-202, METHOD 208
10. ROHS & HALOGEN FREE

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 PER LEG (SEE FIG.1)	IO	15	A
PK FWD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD PER LEG	IFSM	300	A
TYPICAL THERMAL RESISTANCE JUNCTION TO CASE (NOTE 2)	Rajc	2.2/4.0	°C/W
MAXIMUM FORWARD VOLTAGE (NOTE 3)	VF	0.76/0.68	V
REVERSE CURRENT AT Tj =25°C (NOTE 1)	IR	20	uA
REVERSE CURRENT AT Tj =125°C (NOTE 1)	IR	10000	uA

1. PULSE TEST : 300µs PULSE WIDTH , 1% DUTY CYCLE
2. BOTH LEADS ATTACHED TO HEATSINK AT LEAD LENGTH 5mm TO-220AB/ITO-220AB
3. MAXIMUM FORWARD VOLTAGE AT 15A, 25°C / 15A , 125°C

PART NUMBER	MAXIMUM RECURRENT PEAK REVERSE VOLTAGE VRRM (V)	MAXIMUM RMS VOLTAGE VRMS (V)	MAXIMUM DC BLOCKING VOLTAGE VDC (V)
MBR30L120CT/FCT	120	85	120



## RATING AND CHARACTERISTIC CURVES

FIG. 1-FORWARD CURRENT DERATING CURVE

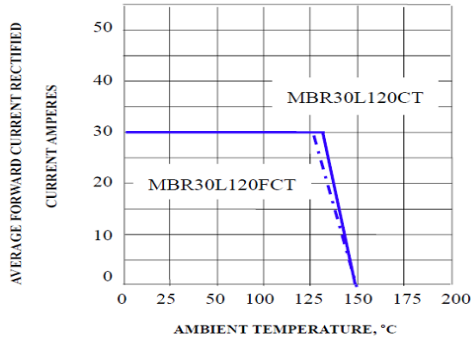


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE RATING

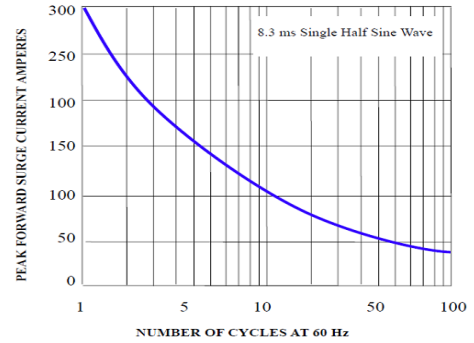


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

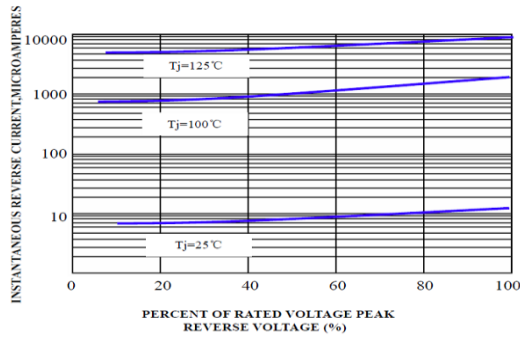


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

