MBRF10100CT

10A Schottky Barrier Rectifiers

FEATURES

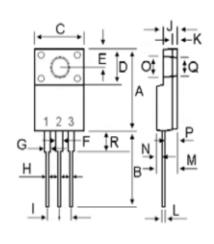
MORESEMI

- Metal of silicon rectifier, majority carrier conducton
- Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0

MECHANICAL DATA

- Case :TO-220F molded plastic
- Polarity : As marked on the body
- Mounting position : Any

TO-220F PACKAGE



DIM	MILLIMETERS		
	MIN	MAX	
A	15.67	16.07	
В	12.90	13.30	
С	9.96	10.36	
D	6.50	6.90	
Е	2.65	2.75	
F	1.20	1.24	
G	1.26	1.46	
Н	0.70	0.90	
Ι	2.34	2.74	
J	2.32	2.72	
K	0.60	0.90	
L	0.45	0.60	
М	4.53	4.93	
Ν	1.30	1.70	
0	3.35	3.45	
Р	2.56	2.96	
Q	3.15	3.25	
R	2.20	2.45	

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°Cambient temperature unless otherwise specified. Single phase, half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%



Lead Free

CHARACTERISTICS	SYMBOL	MBR10100FCT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	V
Maximum RMS Voltage	VRMS	70	V
Maximum DC Blocking Voltage	Vcc	100	V
Maximum Average Forward Rectified Current	I (AV)	10	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	IFSM	125	А
Maximum Forward Voltage at 5A DC	VF	0. 85	V
Maximum DC Reverse Current@TC=25°Cat Rated DC Blocking Voltage@TC=125°C	IR	0. 01 15	MA
Typical Thermal Resistance	R0 JC	3. 0	°C/W
Operating Temperature Range	ТJ	-55to+175	°C
Storage Temperature Range	TSTG	-55to+175	°C

RATINGS AND CHARACTERISTIC CURVES

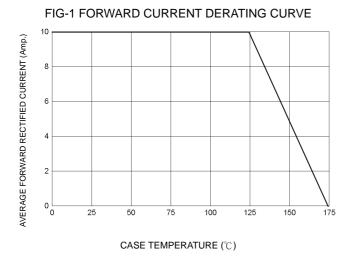
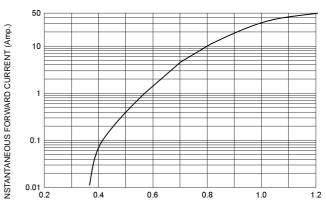
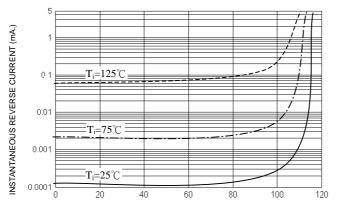


FIG-2 TYPICAL FORWARD CHARACTERISITICS



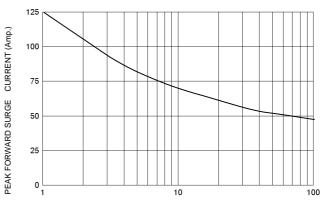
FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS



REVERSE VOLTAGE (Volts)

FIG-4 PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz