

30A Schottky Barrier Rectifiers

FEATURES

- 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

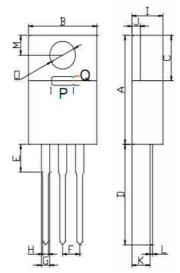
MECHANICAL DATA

• Case :TO-220 molded plastic

• Polarity: As marked on the body

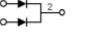
• Mounting position : Any

TO-220 PACKAGE



DIM	MILL IMETERS		
DIM	MIN	MAX	
A	14.68	15. 32	
В	9. 78	10.42	
С	6.01	6. 52	
D	13.06	14.62	
Е	3. 57	4.07	
F	2.42	2.66	
G	1. 12	1.35	
Н	0.72	0.96	
I	4.22	4.98	
J	1. 14	1.36	
К	2. 20	2. 97	
L	0.33	0.55	
M	2.48	2. 98	
0	3. 70	3. 90	
P	3. 50	3.70	
Q	1. 20	1.40	





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	MBR30100CT	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)	30	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	IFSM	250	A
Maximum Forward Voltage at 15A DC	VF	0. 85	V
Maximum DC Reverse Current @TC=25℃ at Rated DC Blocking Voltage @ TC= 125℃	IR	0. 15 50	MA
Typical Thermal Resistance	ЮјС	1. 4	°C/W
Operating Temperature Range	ТЈ	−55to+175	$^{\circ}$
Storage Temperature Range	TSTG	−55to+175	$^{\circ}$



RATINGS AND CHARACTERISTIC CURVES

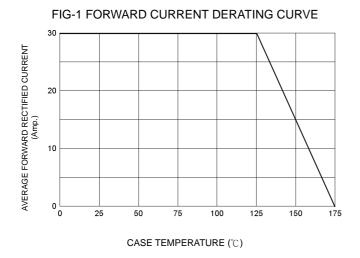
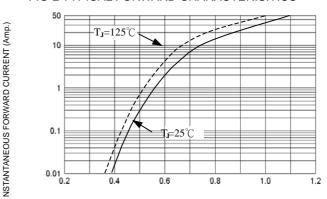
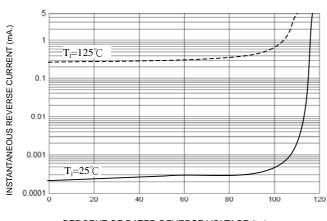


FIG-2 TYPICAL FORWARD CHARACTERISITICS



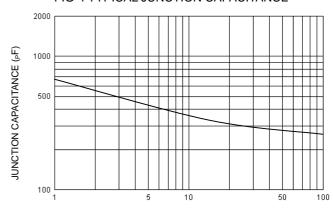
FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED REVERSE VOLTAGE (%)

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)



