

DATA SHEET

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE	100 Volts	CURRENT	10.0Amperes	TO-220AB		Unit	t:mm
FEATURES							
 Metal of sil 	licon rectifier,majo	rity carrier conducto	on				
•Guard-Rin	g for Stress Pr		DIM	MILLIMETERS			
• Low nower	loss high eff	iciency			DIM	MIN	MAX
• Low power loss, high efficiency						14.68 9.78	15.32 10.42
• High current capability, low VF						9.78 5.02	6.52
•High surg	e capacity			C D	13.06	14.62	
• Plastic p	ackage has UL f	lammability clas	sification 94V-0		E	3.57	4.07
					F	2.42 1.12	2.66 1.36
MECHANICAL	DA TA				Н	0.72	0.96
					1	4.22	4.98
•Case : T	O-220AB molded	plastic			J	1.14	1.38
• Polarity : As marked on the body					K	2.20 0.33	2.98 0.55
• Mounting	position : An	10- > 0	M	2.48	2.98		
ino an e ino	, posición , mi	5		3 0	0	3.70	3.90
			_				
			(Pb)				

In compliance with EU RoHs 2002/95/EC directives

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

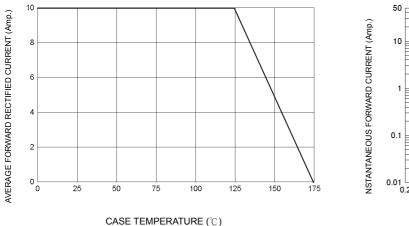
Ratings at 25°Cambient temperature unless otherwise specified. Single phase, half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%

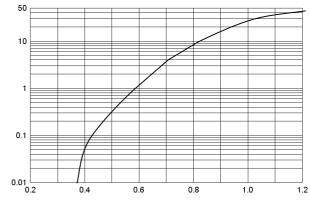
CHARACTERISTICS	SYMBOL	MBR10100CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	V
Maximum RMS Voltage	VRMS	70	V
Maximum DC Blocking Voltage	Vcc	100	V
Maximum Average Forward Rectified Current	I (AV)	10	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	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	ROJC	3. 0	°C/W
Operating Temperature Range	ТJ	-55t o+175	°C
Storage Temperature Range	TSTG	-55to+175	°C



FIG-1 FORWARD CURRENT DERATING CURVE

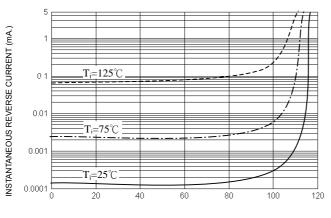
FIG-2 TYPICAL FORWARD CHARACTERISITICS





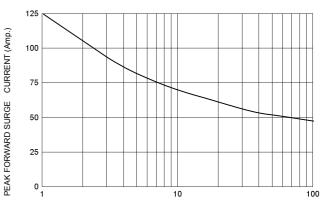
FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS



REVERSE VOLTAGE (Volts)

FIG-4 PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz