

DATA SHEET

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE	100 Volts	CURRENT	30.0Amperes	TO-220AB		Unit:mm	
FEATURES							
• Metal of sil	icon rectifier,major	ity carrier conducto	n				
• Guard-Rin	g for Stress Pro		DIM	MILLIMETERS			
	-			MIN	MAX		
-	loss, high eff		l⊷ A	14.68	15.32		
• High curr	ent capability,		B	9.78	10.42		
• High surg	e canacity			5.02 13.06	6.52 14.62		
				3.57	4.07		
• Plastic p	ackage nas ul I.	lammability clas	sification 94V-0		P F	2.42	2.66
				UUU .U.	G	1.12	1.36
MECHANICAL	DATA			╧╢┽┤╴╧╢	+ Н	0.72	0.96
		1 . •		→ F ← →	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	4.22	4.98
• Case : 1	0-220AB molded	plast1c			J	1.14 2.20	1.38 2.98
• Polarity	: As marked or			0.33	2.90		
• Mounting	nosition · Any	1 0- ▶;	2 M	2.48	2.98		
• Mounting position : Any					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	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	А
Maximum Forward Voltage at 15A DC	VF	0. 85	V
Maximum DC Reverse Current @TC=25°C at Rated DC Blocking Voltage @ TC= 125°C	IR	0. 15 50	MA
Typical Thermal Resistance	ROJC	1. 4	°C/W
Operating Temperature Range	ТJ	-55t o+175	°C
Storage Temperature Range	TSTG	-55to+175	°C



FIG-1 FORWARD CURRENT DERATING CURVE

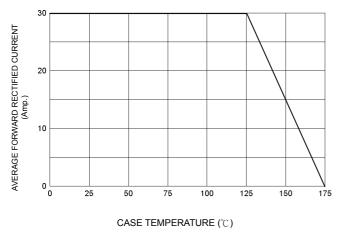
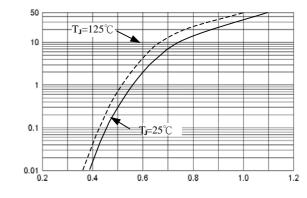
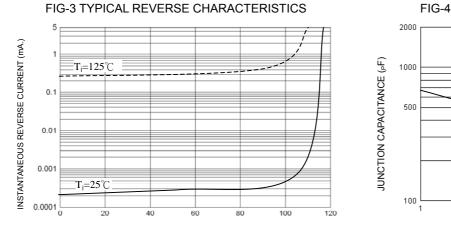


FIG-2 TYPICAL FORWARD CHARACTERISITICS



FORWARD VOLTAGE (Volts)



PERCENT OF RATED REVERSE VOLTAGE (%)

FIG-4 TYPICAL JUNCTION CAPACITANCE

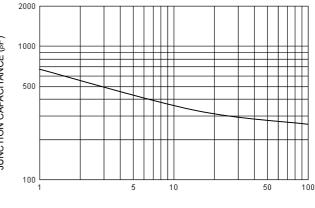




FIG-5 PEAK FORWARD SURGE CURRENT

NSTANTANEOUS FORWARD CURRENT (Amp.)

