

Features

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
MBRX160	SOD-123	SM	3000







Maximum Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit	
V_R	DC Blocking Voltage	60	V	
lo	Forward Current	1	۸	
I _{FSM}	Non-repetitive Peak Forward Surge Current @t=8.3ms	20	A	
P _D	Power Dissipation	300	mW	
R _{0JA}	Thermal Resistance from Junction to Ambient	225	°C/W	
Tj	Junction Temperature	125	°C	
T _{stg}	Storage Temperature	-55~+150	°C	

Electrical Characteristics(Ta=25 unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse current	I _R	V _R =20V			100	μΑ
		V _R =60V			300	μΑ
Forward voltage	V _{F(1)}	I _F =500mA			0.60	V
	V _{F(2)} *	I _F =1000mA			0.72	V

^{*} Pulse test



Typical Characteristics

Fig.1 Forward Current Derating Curve

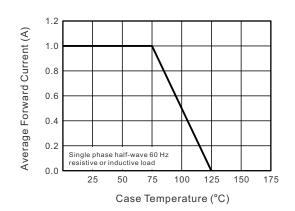


Fig.2 Typical Reverse Characteristics

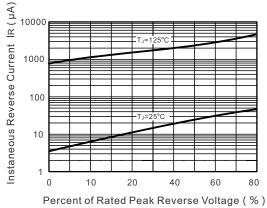


Fig.3 TYPICAL FORWARD VOLTAGE

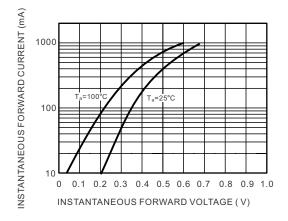


Fig.4 Typical Junction Capacitance

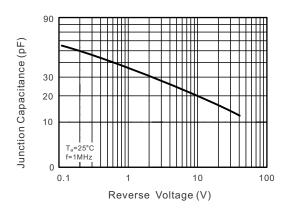
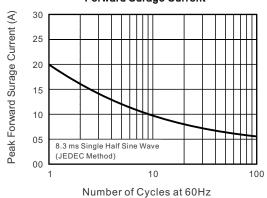
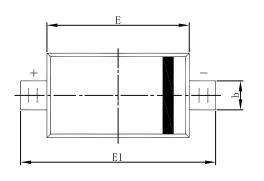


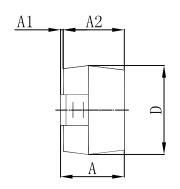
Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

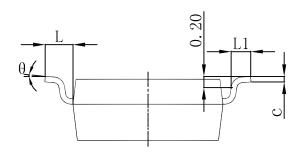




Package Outline Dimensions SOD-123







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
С	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
E	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
L	0.500 REF		0.020 REF		
L1	0.250	0.450	0.010	0.018	
θ	0°	8°	0°	8°	



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