



MBR0530

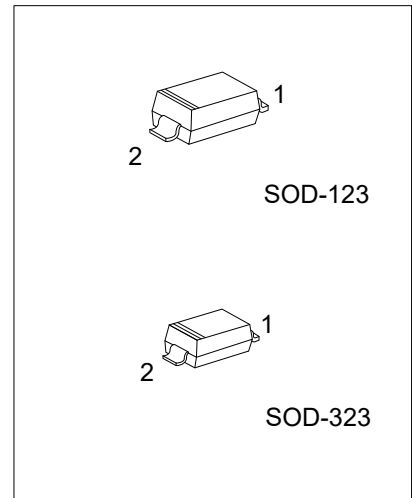
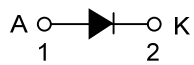
DIODE

SCHOTTKY RECTIFIER

FEATURES

- * For surface mounted applications
- * Low forward voltage drop ($V_F=0.37V$ Typ. at 0.1A)
- * Guard ring for transient and ESD protection

SYMBOL



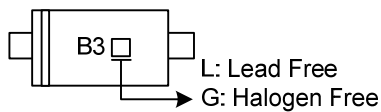
ORDERING INFORMATION

Order Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
MBR0530L-CA2-R	MBR0530G-CA2-R	SOD-123	A	K	Tape Reel
MBR0530L-CB2-R	MBR0530G-CB2-R	SOD-323	A	K	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

<p>MBR0530G-CA2-R</p> <p>(1)Packing Type (2)Package Type (3)Green Package</p>	<p>(1) R: Tape Reel (2) CA2: SOD-123, CB2: SOD-323 (3) G: Halogen Free and Lead Free, L: Lead Free</p>
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MARKING



■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	30	V
Maximum DC Blocking Voltage	V _R	30	V
Working Peak Reverse Voltage	V _{RWM}	30	V
Maximum RMS Reverse Voltage	V _{R(RMS)}	21	V
Maximum Voltage Rate of Change (Rated V _R)	dv/dt	1000	V/μs
Average Rectified Forward Current	I _{OUT}	500	mA
Non-Repetitive Peak Forward Surge Current	I _{FSM}	5.5	A
Power Dissipation	P _D	410	mW
Storage Temperature	T _{STG}	-65 ~ +150	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

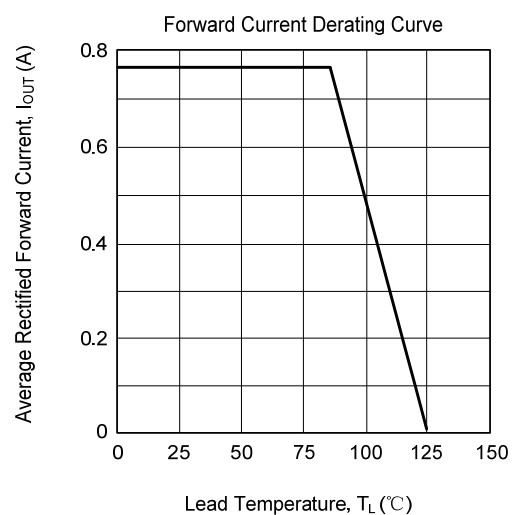
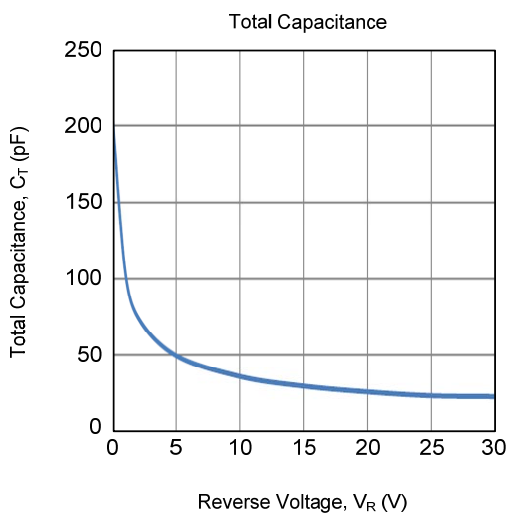
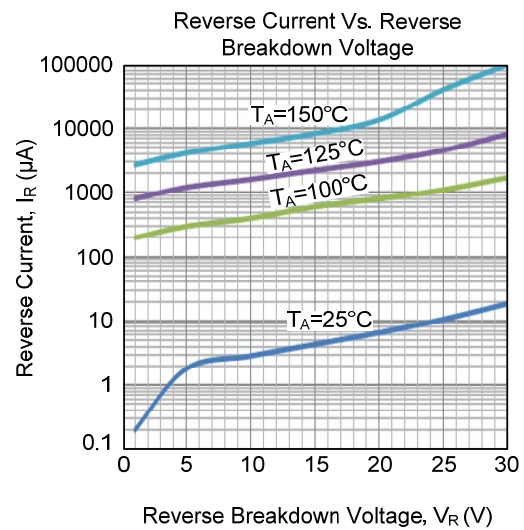
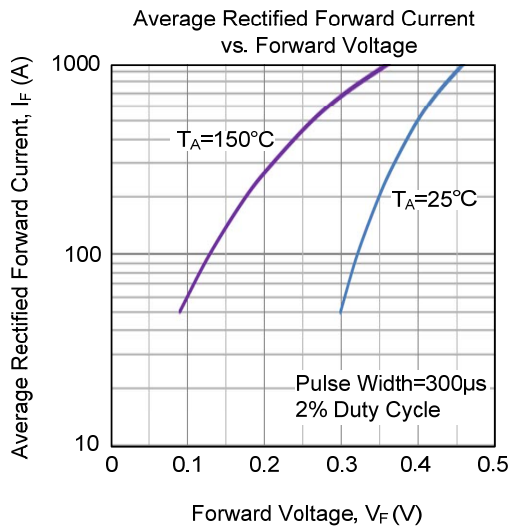
■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ _{JA}	244	°C/W

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Breakdown Voltage	BV _R	I _R =130μA	30			V
Forward Voltage Drop	V _{F1}	I _F =0.1A			0.375	V
	V _{F2}	I _F =0.5A			0.430	
Reverse Leakage Current	I _{R1}	V _R =15V			20	μA
	I _{R2}	V _R =30V			130	
Total Capacitance	C _T	V _R =1V, f=1MHz			170	pF
Typical Reverse Recovery Time	t _{RR}	I _F =I _R =10mA, R _L =100Ω recover to 0.1 x I _R			4	ns

■ TYPICAL CHARACTERISTICS



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