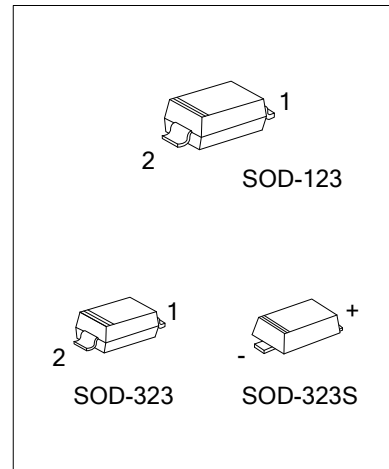
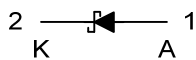


**MBR0540****DIODE****SCHOTTKY RECTIFIER****■ FEATURES**

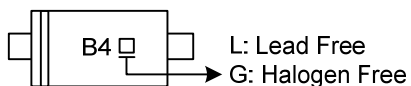
- * For surface mounted applications
- * Low forward voltage drop ($V_F=0.50V$ Typ. at 0.5A)
- * Guard ring for transient and ESD protection

■ SYMBOL**■ ORDERING INFORMATION**

Order Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
MBR0540L-CA2-R	MBR0540G-CA2-R	SOD-123	A	K	Tape Reel
MBR0540L-CB2-R	MBR0540G-CB2-R	SOD-323	A	K	Tape Reel
MBR0540L-CB2S-R	MBR0540G-CB2S-R	SOD-323S	A	K	Tape Reel

Note: Pin assignment: A: Anode K: Cathode

MBR0540G-CA2-R (1) Packing Type (2) Package Type (3) Green Package	(1) R: Tape Reel (2) CA2: SOD-123, CB2: SOD-323, CB2S: SOD-323S (3) G: Halogen Free and Lead Free, L: Lead Free
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■ MARKING

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

PARAMETER	SYMBOL	RATINGS	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	40	V
Maximum DC Blocking Voltage	V _R	40	V
Working Peak Reverse Voltage	V _{RWM}	40	V
Maximum RMS Reverse Voltage	V _{R(RMS)}	28	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	SOD-123	P _D	410
	SOD-323		200
	SOD-323S		mW
Junction Temperature	T _J	-65 ~ +150	°C
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.

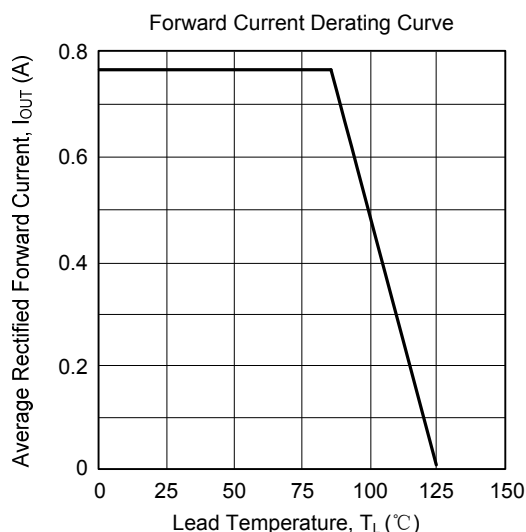
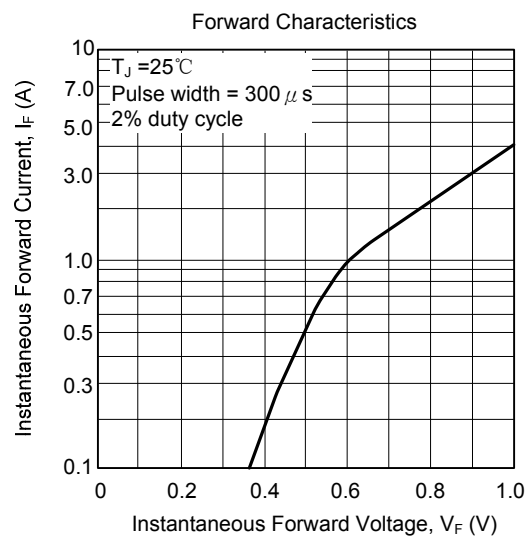
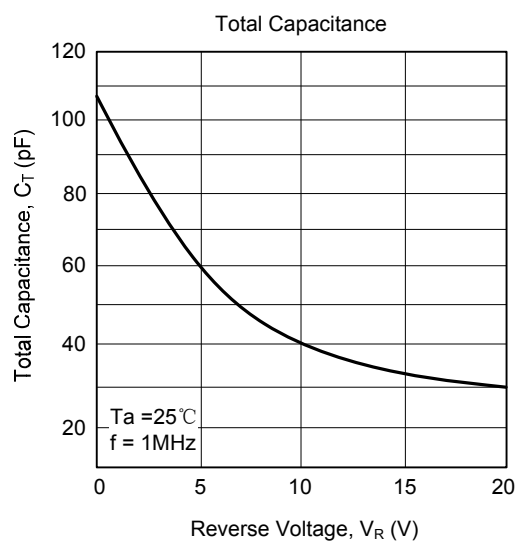
■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	SOD-123	θ _{JA}	244
	SOD-323		500
	SOD-323S		°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 =20μA	40			V
Forward Voltage Drop	V _{F1}	I _F =0.5A			0.51	V
	V _{F2}	I _F =1A			0.62	V
Reverse Leakage Current	I _{R1}	V _R =20V			10	μA
	I _{R2}	V _R =40V			20	μA
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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