

Table 1 / Absolute Maximum Ratings(Ta=25 °C ;)

@ f Parameter	Symbol	f Rating	% y Unit
Peak Pulse Power Dissipation on TA=25°C (Note 1,2,4, Fig1)	P _{PPM}	400	W
Peak Forward Surge Current (Note 3, Fig 4)	I _{FSM} (UNI)	60	A
Peak Pulse Current on 10/1000 us waveform (Note 1, Fig 3)	I _{PPM}	see Table 1	A
ESD Voltage per IEC6100-4-2	Contact	V _{ESD1}	f 30 KV
	Air	V _{ESD2}	f 30 KV
Typical Thermal Resistance Junction to Ambient(Note 2)	R _{JA}	100	/W
Operating Junction Temperature and Storage Temperature Range	T _j , T _{stg}	-65 ~ +150	

Note:

1. Non-repetitive current pulse, per Fig.3 and derated above T_A = 25°C per Fig. 2.
2. Mounted on 5mm² copper pads to each terminal.
3. Peak Forward Surge Current : 8.3ms single half sine-wave Superimposed on rated load (JEDEC method).
4. Peak pulse power waveform is 10/1000 S.

Type		Reverse Stand-off Voltage	Breakdown Voltage		Test Current	Reverse Leakage	Max. Clamp Voltage	Peak Pulse Current	Package	
			V _{BR} @ I _T						SMA	
		V _{R_{RM}}	Min	Max	I _T	I _R @ V _{R_{RM}}	V _C @ I _{PP}	I _{PP}	Device Marking Ccode	
UNI	BI	V	V	V	mA	uA	V	A	UNI	BI
BR SMAJ5.0AQ	BR SMAJ5.0CAQ	5	6.4	7	10	800	9.2	43.5	AEQ	WEQ
BR SMAJ6.0AQ	BR SMAJ6.0CAQ	6	6.67	7.37	10	800	10.3	38.8	AGQ	WGQ
BR SMAJ6.5AQ	BR SMAJ6.5CAQ	6.5	7.22	7.98	10	500	11.2	35.7	AKQ	WKQ

Type		Reverse Stand-off Voltage	Breakdown Voltage		Test Current	Reverse Leakage	Max. Clamp Voltage	Peak Pulse Current	Package	
			V _{BR} @ I _T						SMA	
		V _{R_{RRM}}	Min	Max	I _T	I _R @ V _{R_{RRM}}	V _C @ I _{PP}	I _{PP}	Device Marking Ccode	
UNI	BI	V	V	V	mA	uA	V	A	UNI	BI

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BRSMAJ SeriesQ

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DATA SHEET

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Note:

AE y Product Type Code

Q: Automobile halogen-free product Code

**** y Lot No. Code, code change with Lot No

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1o• Ä ½ “ † 150 ½200 - k ž • 60 ½120sec;

2o• Q › “ † 255 r5 - k ž • 4 Ò 5 r0.5sec;

Note:

1.Preheating:150~200 - , Time:60~120sec.

2.Peak Temp.:255 r5 - , Duration:5 r