

Table 1 Absolute Maximum Ratings(Ta=25℃ ;)

Parameter		Symbol	Rating	Unit
Peak Pulse Power Dissipation on T _A =25℃ (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℃ 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		I _T	I _R @ V _{RRM}	V _C @ I _{PP}	I _{PP}	SMA	
		V _{RRM}	Min	Max					Device Marking Ccode	
UNI	BI	V	V	V	mA	uA	V	A	UNI	BI
BRSMAJ5.0AQ	BRSMAJ5.0CAQ	5	6.4	7	10	800	9.2	43.5	AEQ	WEQ
BRSMAJ6.0AQ	BRSMAJ6.0CAQ	6	6.67	7.37	10	800	10.3	38.8	AGQ	WGQ
BRSMAJ6.5AQ	BRSMAJ6.5CAQ	6.5	7.22	7.98	10	500	11.2	35.7	AKQ	WKQ
BRSMAJ7.0AQ	BRSMAJ7.0CAQ	7	7.78	8.6	10	200	12.0	33.3	AMQ	WMQ
BRSMAJ7.5AQ	BRSMAJ7.5CAQ	7.5	8.33	9.21	1	100	12.9	31.0	APQ	WPQ
BRSMAJ8.0AQ	BRSMAJ8.0CAQ	8	8.89	9.83	1	50	13.6	29.4	ARQ	WRQ
BRSMAJ8.5AQ	BRSMAJ8.5CAQ	8.5	9.44	10.4	1	20	14.4	27.8	ATQ	WTQ

Ω4ì × ? d / Electrical Characteristics(Ta=25 ;)

Type		Reverse Stand-off Voltage	Breakdown Voltage		Test Current	Reverse Leakage	Max. Clamp Voltage	Peak Pulse Current	Package	
		V _{RRM}	V _{BR} @ I _T		I _T	I _R @ V _{RRM}	V _C @ I _{PP}	I _{PP}	SMA	
			Min	Max					Device Marking	Ccode
UNI	BI	V	V	V	mA	uA	V	A	UNI	BI
BRMAJ45AQ	BRMAJ45CAQ	45	50	55.3	1	1	72.7	5.5	CVQ	YVQ
BRMAJ48AQ	BRMAJ48CAQ	48	53.3	58.9	1	1	77.4	5.2	CXQ	YXQ
BRMAJ51AQ	BRMAJ51CAQ	51	56.7	62.7	1	1	82.4	4.9	CZQ	YZQ
BRMAJ54AQ	BRMAJ54CAQ	54	60	66.3	1	1	87.1	4.6	REQ	ZEQ
BRMAJ58AQ	BRMAJ58CAQ	58	64.4	71.2	1	1	93.6	4.3	RGQ	ZGQ
BRMAJ60AQ	BRMAJ60CAQ	60	66.7	73.7	1	1	96.8	4.1	RKQ	ZKQ
BRMAJ64AQ	BRMAJ64CAQ	64	71.1	78.6	1	1	103.0	3.9	RMQ	ZMQ
BRMAJ70AQ	BRMAJ70CAQ	70	77.8	86	1	1	113.0	3.5	RPQ	ZPQ
BRMAJ75AQ	BRMAJ75CAQ	75	83.3	92.1	1	1	121.0	3.3	RRQ	ZRQ
BRMAJ78AQ	BRMAJ78CAQ	78	86.7	95.8	1	1	126.0	3.2	RTQ	ZTQ
BRMAJ85AQ	BRMAJ85CAQ	85	94.4	104	1	1	137.0	2.9	RVQ	ZVQ
BRMAJ90AQ	BRMAJ90CAQ	90	100	111	1	1	146.0	2.7	RXQ	ZXQ
BRMAJ100AQ	BRMAJ100CAQ	100	111	123	1	1	162.0	2.5	RZQ	ZZQ
BRMAJ110AQ	BRMAJ110CAQ	110	122	135	1	1	177.0	2.3	SEQ	VEQ
BRMAJ120AQ	BRMAJ120CAQ	120	133	147	1	1	193.0	2.1	SGQ	VGQ
BRMAJ130AQ	BRMAJ130CAQ	130	144	159	1	1	209.0	1.9	SKQ	VKQ
BRMAJ150AQ	BRMAJ150CAQ	150	167	185	1	1	243.0	1.6	SMQ	VMQ
BRMAJ160AQ	BRMAJ160CAQ	160	178	197	1	1	259.0	1.5	SPQ	VPQ
BRMAJ170AQ	BRMAJ170CAQ	170	189	209	1	1	275.0	1.5	SRQ	VRQ
BRMAJ180AQ	BRMAJ180CAQ	180	201	222	1	1	292.0	1.4	STQ	VTQ
BRMAJ200AQ	BRMAJ200CAQ	200	224	247	1	1	324.0	1.2	SVQ	VVQ
BRMAJ220AQ	BRMAJ220CAQ	220	246	272	1	1	356.0	1.1	SXQ	VXQ
BRMAJ250AQ	BRMAJ250CAQ	250	279	309	1	1	405.0	1.0	SZQ	VZQ
BRMAJ300AQ	BRMAJ300CAQ	300	335	371	1	1	486.0	0.8	TEQ	UEQ
BRMAJ350AQ	BRMAJ300CAQ	350	391	432	1	1	567.0	0.7	TGQ	UGQ
BRMAJ400AQ	BRMAJ350CAQ	400	447	494	1	1	648.0	0.6	TKQ	UKQ
BRMAJ440AQ	BRMAJ400CAQ	440	492	543	1	1	713.0	0.6	TMQ	UMQ

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, M y f / Marking Instructions

AEQ

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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

, M y f / Marking Instructions

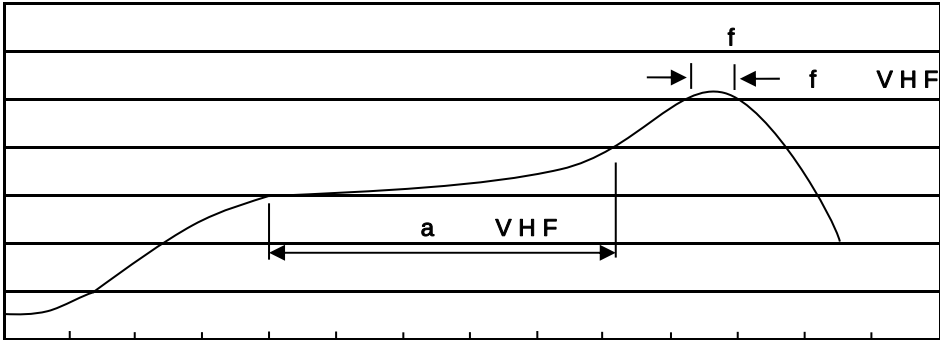
WEQ

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Note:
WE y Product Type Code
Q: Automobile halogen-free product Code
**** y Lot No. Code, code change with Lot No

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7HPSHUDWXUH



7LPH VHF

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Note:

- 10• Ä ½ “† 150 ½200 - k Ž • 60 ½120sec;
- 20• Q > “† 255 r5 - k Ž • 4 Ò 5 r0.5sec;
- 30•D N ò i Ò 0 ,† 2 ½10 - /sec.
- 1.Preheating:150~200 - , Time:60~120sec.
- 2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.
3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“† y 260 r5 - Ž • y 10 r1 sec. Temp.:260±5 Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit Åmm³)		
	Units/Reel /-	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
SMA	5,000	2	10,000	7	70,000	13 s ×12	336×336×40	380×335×366

„Ð y f / Notices