Ã a ? d / Absolute Maximum Ratings(Ta=25 ;)

@ *f* Parameter		… Z Symbol	*f* › Rating	% y Unit
Peak Pulse Power Dissipation on T_A=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 5mm^2 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

Ô4ì × ? d / Electrical Characteristics(Ta=25 ;)

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
BRSMAJ45AQ	BRSMAJ45CAQ	45	50	55.3	1	1	72.7	5.5	CVQ	YVQ
BRSMAJ48AQ	BRSMAJ48CAQ	48	53.3	58.9	1	1	77.4	5.2	CXQ	YXQ
BRSMAJ51AQ	BRSMAJ51CAQ	51	56.7	62.7	1	1	82.4	4.9	CZQ	YZQ
BRSMAJ54AQ	BRSMAJ54CAQ	54	60	66.3	1	1	87.1	4.6	REQ	ZEQ
BRSMAJ58AQ	BRSMAJ58CAQ	58	64.4	71.2	1	1	93.6	4.3	RGQ	ZGQ
BRSMAJ60AQ	BRSMAJ60CAQ	60	66.7	73.7	1	1	96.8	4.1	RKQ	ZKQ
BRSMAJ64AQ	BRSMAJ64CAQ	64	71.1	78.6	1	1	103.0	3.9	RMQ	ZMQ
BRSMAJ70AQ	BRSMAJ70CAQ	70	77.8	86	1	1	113.0	3.5	RPQ	ZPQ
BRSMAJ75AQ	BRSMAJ75CAQ	75	83.3	92.1	1	1	121.0	3.3	RRQ	ZRQ
BRSMAJ78AQ	BRSMAJ78CAQ	78	86.7	95.8	1	1	126.0	3.2	RTQ	ZTQ
BRSMAJ85AQ	BRSMAJ85CAQ	85	94.4	104	1	1	137.0	2.9	RVQ	ZVQ
BRSMAJ90AQ	BRSMAJ90CAQ	90	100	111	1	1	146.0	2.7	RXQ	ZXQ
BRSMAJ100AQ	BRSMAJ100CAQ	100	111	123	1	1	162.0	2.5	RZQ	ZZQ
BRSMAJ110AQ	BRSMAJ110CAQ	110	122	135	1	1	177.0	2.3	SEQ	VEQ
BRSMAJ120AQ	BRSMAJ120CAQ	120	133	147	1	1	193.0	2.1	SGQ	VGQ
BRSMAJ130AQ	BRSMAJ130CAQ	130	144	159	1	1	209.0	1.9	SKQ	VKQ
BRSMAJ150AQ	BRSMAJ150CAQ	150	167	185	1	1	243.0	1.6	SMQ	VMQ
BRSMAJ160AQ	BRSMAJ160CAQ	160	178	197	1	1	259.0	1.5	SPQ	VPQ
BRSMAJ170AQ	BRSMAJ170CAQ	170	189	209	1	1	275.0	1.5	SRQ	VRQ
BRSMAJ180AQ	BRSMAJ180CAQ	180	201	222	1	1	292.0	1.4	STQ	VTQ
BRSMAJ200AQ	BRSMAJ200CAQ	200	224	247	1	1	324.0	1.2	SVQ	VVQ
BRSMAJ220AQ	BRSMAJ220CAQ	220	246	272	1	1	356.0	1.1	SXQ	VXQ
BRSMAJ250AQ	BRSMAJ250CAQ	250	279	309	1	1	405.0	1.0	SZQ	VZQ
BRSMAJ300AQ	BRSMAJ300CAQ	300	335	371	1	1	486.0	0.8	TEQ	UEQ
BRSMAJ350AQ	BRSMAJ300CAQ	350	391	432	1	1	567.0	0.7	TGQ	UGQ
BRSMAJ400AQ	BRSMAJ350CAQ	400	447	494	1	1	648.0	0.6	TKQ	UKQ
BRSMAJ440AQ	BRSMAJ400CAQ	440	492	543	1	1	713.0	0.6	TMQ	UMQ

Ô ? d • Ž ¢ / Electrical Characteristic Curve

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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 ƒ / Marking Instructions

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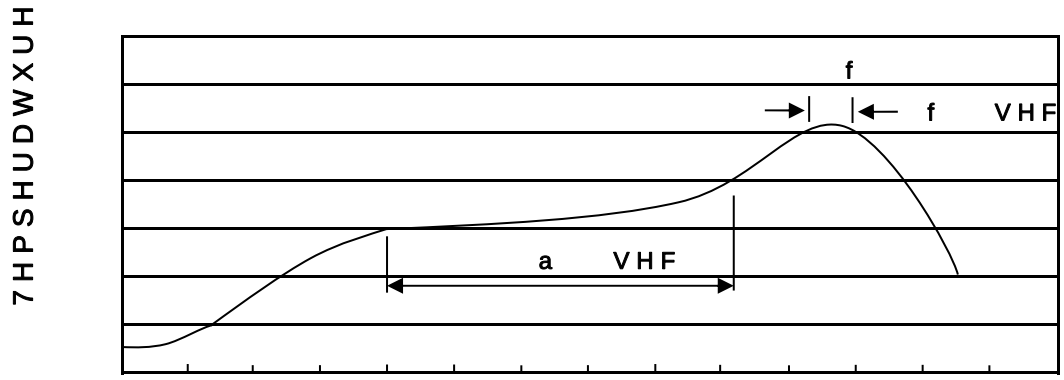

7LPH VHF

ª ¢ y Note:

1o• Ä ½ “ † 150 ½200 - k ž • 60 ½120sec; 1.Preheating:150~200 - , Time:60~120sec.

2o• Q › “ † 255 r5 - k ž • 4 Ò 5 r0.5sec; 2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.

3o•D N ò i Ò 0 , † 2 ½10 - /sec. 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 Æmm³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box×	Outer Box1ç
SMA	5,000	2	10,000	7	70,000	13 s ×12	336×336×40	380×335×366

„ Ð y ƒ / Notices