



Micro Commercial Components



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SMAJ10AHE3
THRU
SMAJ85CAHE3

400 Watt
Transient Voltage
Suppressors
10 to 85 Volts

DO-214AC
(SMA)(LEAD FRAME)

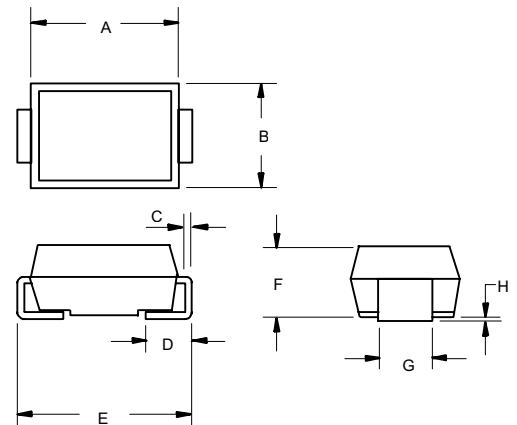
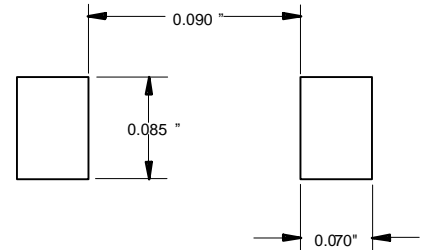


Table with 6 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows A through H.

SUGGESTED SOLDER
PAD LAYOUT



Features

- Halogen free
For Surface Mount Applications
Unidirectional And Bidirectional
Low Inductance
High Temp Soldering: 260°C for 10 Seconds At Terminals
For Bidirectional Devices Add "C" To The Suffix of The Part Number: i.e.SMAJ10CAHE3 for 5% Tolerance
Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
UL Recognized File # E331408
Meet AEC-Q101 Requirement

Mechanical Data

- Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1
Manufacturing code added for better tracking
Polarity: Indicated by cathode band except bi-directional types

Maximum Rating:

- Operating Temperature: -55°C to +175°C
Storage Temperature: -55°C to +175°C
Typical Thermal Resistance: 100°C/W Junction to Ambient

Table with 4 columns: Parameter, Symbol, Value, Note. Rows: Peak Pulse Current, Peak Pulse Power Dissipation, Steady State Power Dissipation.

- Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.
2. Non-repetitive current pulse, per Fig.3 and derated above TA=25°C per Fig.2.
3. Mounted on 5.0mm² copper pads to each terminal.
4. 8.3ms, single half sine wave duty cycle = 4 pulses per Minutes maximum.
5. Lead temperature at TL = 75°C.
6. Peak pulse power waveform is 10/1000us

SMAJ10AHE3 thru SMAJ85CAHE3



Fig. 1-PEAK PULSE POWER RATING CURVE



Fig. 2-PULSE RATING CURVE



Fig. 3-PULSE WAVEFORM



Fig. 4-TYPICAL JUNCTION CAPACITANCE

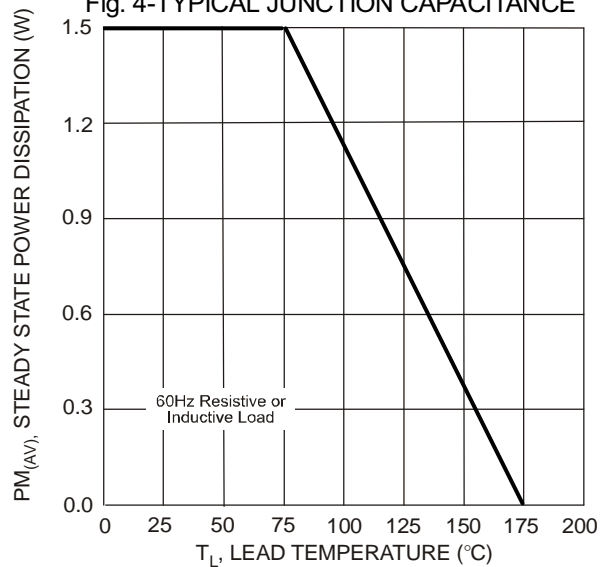


Fig.5-Steady State Power Derating Curve

SMAJ10AHE3 thru SMAJ85CAHE3

ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER		REVERSE STAND-OFF VOLTAGE V_{WM}	BREAKDOWN VOLTAGE $V_{(BR)} @ I_T$ (VOLTS)			MAXIMUM CLAMPING VOLTAGE @ I_{PP}	PEAK PULSE CURRENT I_{PP}	MAXIMUM REVERSE LEAKAGE @ V_{WM} I_b	MARKING CODE	
UNI-POLAR	BI-POLAR	(VOLTS)	MIN	MAX	I_T (mA)	(VOLTS)	(AMPS)	(μ A)	1	2
SMAJ10AHE3	SMAJ10CAHE3	10	11.1	12.3	1	17.0	23.5	5	AX	WX
SMAJ11AHE3	SMAJ11CAHE3	11	12.2	13.5	1	18.2	22.0	1	AZ	WZ
SMAJ12AHE3	SMAJ12CAHE3	12	13.3	14.7	1	19.9	20.1	1	BE	XE
SMAJ13AHE3	SMAJ13CAHE3	13	14.4	15.9	1	21.5	18.6	1	BG	XG
SMAJ14AHE3	SMAJ14CAHE3	14	15.6	17.2	1	23.2	17.2	1	BK	XK
SMAJ15AHE3	SMAJ15CAHE3	15	16.7	18.5	1	24.4	16.4	1	BM	XM
SMAJ16AHE3	SMAJ16CAHE3	16	17.8	19.7	1	26.0	15.3	1	BP	XP
SMAJ17AHE3	SMAJ17CAHE3	17	18.9	20.9	1	27.6	14.5	1	BR	XR
SMAJ18AHE3	SMAJ18CAHE3	18	20.0	22.1	1	29.2	13.7	1	BT	XT
SMAJ20AHE3	SMAJ20CAHE3	20	22.2	24.5	1	32.4	12.3	1	BV	XV
SMAJ22AHE3	SMAJ22CAHE3	22	24.4	26.9	1	35.5	11.2	1	BX	XX
SMAJ24AHE3	SMAJ24CAHE3	24	26.7	29.5	1	38.9	10.3	1	BZ	XZ
SMAJ26AHE3	SMAJ26CAHE3	26	28.9	31.9	1	42.1	9.5	1	CE	YE
SMAJ28AHE3	SMAJ28CAHE3	28	31.1	34.4	1	45.4	8.8	1	CG	YG
SMAJ30AHE3	SMAJ30CAHE3	30	33.3	36.8	1	48.4	8.3	1	CK	YK
SMAJ33AHE3	SMAJ33CAHE3	33	36.7	40.6	1	53.3	7.5	1	CM	YM
SMAJ36AHE3	SMAJ36CAHE3	36	40.0	44.2	1	58.1	6.9	1	CP	YP
SMAJ40AHE3	SMAJ40CAHE3	40	44.4	49.1	1	64.5	6.2	1	CR	YR
SMAJ43AHE3	SMAJ43CAHE3	43	47.8	52.8	1	69.4	5.7	1	CT	YT
SMAJ45AHE3	SMAJ45CAHE3	45	50.0	55.3	1	72.7	5.5	1	CV	YV
SMAJ48AHE3	SMAJ48CAHE3	48	53.3	58.9	1	77.4	5.2	1	CX	YX
SMAJ51AHE3	SMAJ51CAHE3	51	56.7	62.7	1	82.4	4.9	1	CZ	YZ
SMAJ54AHE3	SMAJ54CAHE3	54	60.0	66.3	1	87.1	4.6	1	RE	ZE
SMAJ58AHE3	SMAJ58CAHE3	58	64.4	71.2	1	93.6	4.3	1	RG	ZG
SMAJ60AHE3	SMAJ60CAHE3	60	66.7	73.7	1	96.8	4.1	1	RK	ZK
SMAJ64AHE3	SMAJ64CAHE3	64	71.1	78.6	1	103	3.9	1	RM	ZM
SMAJ70AHE3	SMAJ70CAHE3	70	77.8	86.0	1	113	3.5	1	RP	ZP
SMAJ75AHE3	SMAJ75CAHE3	75	83.3	92.1	1	121	3.3	1	RR	ZR
SMAJ78AHE3	SMAJ78CAHE3	78	86.7	95.8	1	126	2.2	1	RT	ZT
SMAJ85AHE3	SMAJ85CAHE3	85	94.4	104	1	137	2.9	1	RV	ZV

For bi-directional type having V_{rwm} of 10 Volts and less, the IR limit is double.
 For parts without A, the VBR is +10%.



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel

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