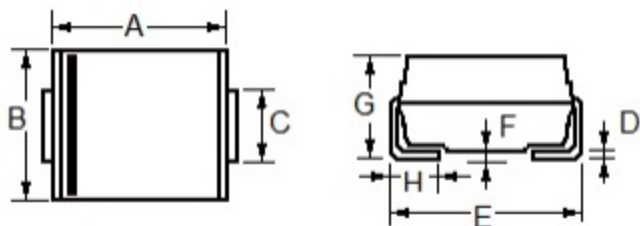


SMAJ5.0--SMAJ440CA

Surface Mount TVS Diode

- 400 Watt Peak Power
- SMA Package

SMA (DO-214AC)



Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	3.99	4.50	0.157	0.177
B	2.54	2.79	0.100	0.110
C	1.25	1.65	0.049	0.065
D	0.152	0.305	0.006	0.012
E	4.93	5.28	0.194	0.208
F	----	0.203	----	0.008
G	1.98	2.29	0.078	0.090
H	0.76	1.52	0.030	0.060

Maximum Ratings And Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Parameter	Symbol	Value	Units
Peak Power Dissipation (Note 1.) @ $T_L = 25^\circ\text{C}$, Pulse Width = 1 ms	P_{PK}	400	W
Forward Surge Current (Note 2.) @ $T_A = 25^\circ\text{C}$	I_{FSM}	100	A
Power Dissipation On Infinite Heatsink, @ $T_A = 50^\circ\text{C}$	$P_{M(AV)}$	5.0	W
Thermal Resistance Junction To Ambient Air (Note 3.)	$R_{\theta JA}$	100	$^\circ\text{C/W}$
Thermal Resistance Junction To Leads	$R_{\theta JL}$	20	$^\circ\text{C/W}$
Operating & Storage Temperature Range	T_{STG}	-55 to 150	$^\circ\text{C}$
Operating Junction Temperature Range	T_J	-55 to 150	$^\circ\text{C}$

UNI	BI	UNI	BI	off Voltage VR (Volts)	MIN	MAX	IT (mA)	Voltage VC @ IPP (Volts)	Pulse Current IPP (A)	Leakage IR @ VR (μA)
SMAJ10A	SMAJ10CA	HX	TX	10.50	11.10	12.30	1	17.0	23.5	1
SMAJ11A	SMAJ11CA	HZ	TZ	11.55	12.20	13.50	1	18.2	22.0	1
SMAJ12A	SMAJ12CA	IE	UE	12.60	13.30	14.70	1	19.9	20.1	1
SMAJ13A	SMAJ13CA	IG	UG	13.65	14.40	15.90	1	21.5	18.6	1
SMAJ14A	SMAJ14CA	IK	UK	14.70	15.60	17.20	1	23.2	17.2	1
SMAJ15A	SMAJ15CA	IM	UM	15.75	16.70	18.50	1	24.4	16.4	1