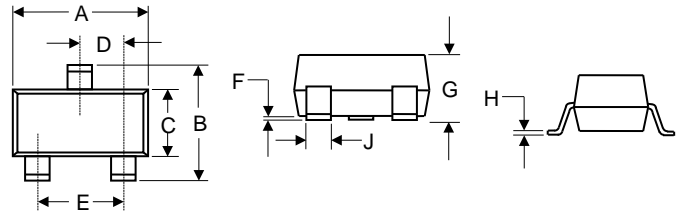
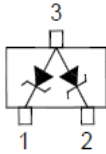


Features

- * Protects one bidirectional line or two unidirectional lines
- * Low clamping voltage
- * Low leakage current
- * TVS diode array for ESD protection in portable electronics
- * Marking Code: 5HA



RoHS
COMPLIANT



SOT-23				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.110	0.120	2.80	3.04
B	0.087	0.102	2.20	2.60
C	0.047	0.055	1.20	1.40
D	0.035	0.04	0.89	1.02
E	0.070	0.080	1.78	2.04
F	---	0.004	---	0.10
G	0.035	0.047	0.89	1.20
H	0.003	0.008	0.08	0.19
J	0.015	0.02	0.37	0.51

Maximum Ratings (T_A=25°C unless otherwise noted)

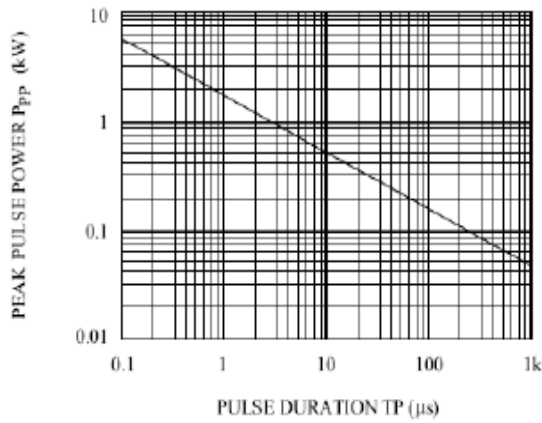
Parameter	Symbol	Value	Unit
Reverse Stand-Off Voltage	V _{RWM}	5	V
Peak Pulse Current (t _p = 8/20 μs)	I _{PP}	24	A
Peak Pulse Power (t _p = 8/20 μs)	P _{PK}	350	W
Operation Temperature Range	T _j	- 55 to + 150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

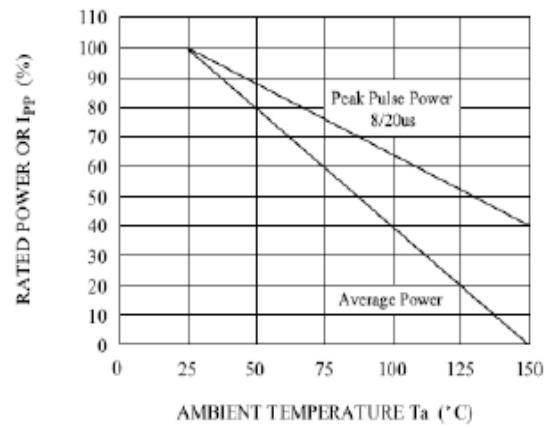
Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 1 mA	V _{(BR)R}	6	-	V
Reverse Current at V _R = 5 V	I _R	-	20	μA
Clamping Voltage at I _{PP} = 24 A, t _p = 8/20 μs	V _C	-	14.5	V
Junction Capacitance at V _R = 0 V, f = 1 MHz (Pin 1 to 3 and Pin 2 to 3)	C _J	-	400	pF

Ratings and Characteristic Curves

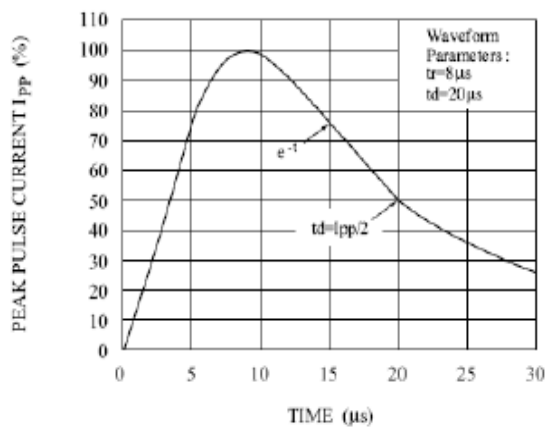
NON-REPETTITIVE PEAK PULSE POWER VS. PULSE TIME



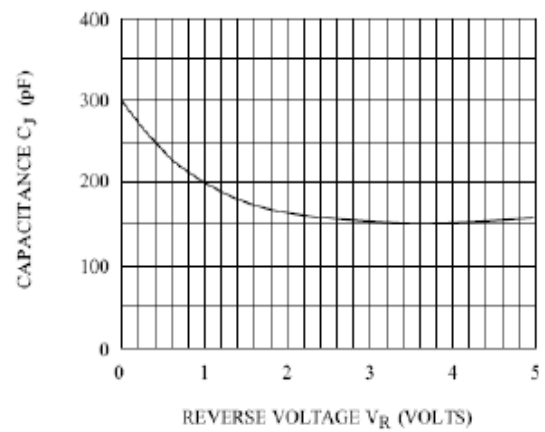
POWER DERATION CURVE



PULSE WAVEFORM



C_J - V_R





ESD05CA

Silicon Epitaxial Planar Diode

Ordering Information

Part No.	Package	Packing Code	Packing
ESD05CA	SOT-23	R30	3000pcs/Reel

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