

Features

- ◇ 100W (8/20 μ s) Peak Pulse Power ◇
- ESD and Latch-Up Protection
- ◇ SOT-363 Package
- ◇ RoHS Compliant
- ◇ Matte Tin Lead finish (Pb-Free) ◇
- Protect Five I/O Lines
- ◇ Meet IEC61000-4-2 Level 4:
 - Contact Discharge > 20kV Air
 - Discharge > 20kV

Applications

- ◇ Peripherals
- ◇ Audio Players
- ◇ Digital Cameras
- ◇ Cordless Phones
- ◇ Portable Instrumentation
- ◇ Notebooks and Handhelds
- ◇ Personal Digital Assistants (PDA's)
- ◇ Cellular Handsets and Accessories

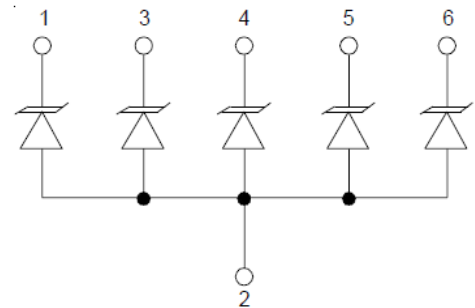
Ordering information

Device	Package	Reel Size	Qty / Reel
SMF05C	SOT-363	7 inch	3000

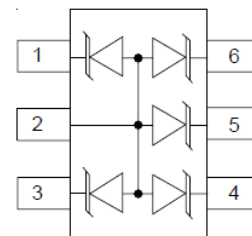
Maximum Ratings (Ta = 25°C)

Symbol	Parameter	Value	Unit
PPK	Peak Pulse Power	100	W
IPP	Peak Pulse Current	6	A
VESD (Contact)	Contact ESD Voltage per IEC61000-4-2	20	kV
VESD (Air)	Air ESD Voltage per IEC61000-4-2	20	kV
TJ	Junction Temperature	-55 to +125	°C
TSTG	Storage Temperature	-55 to +150	°C

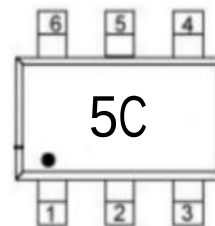
Circuit Diagram



PIN Diagram

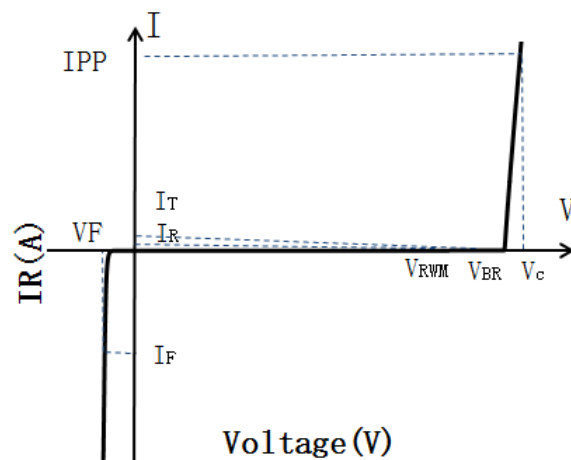


Marking



Portion Electronics Parameter

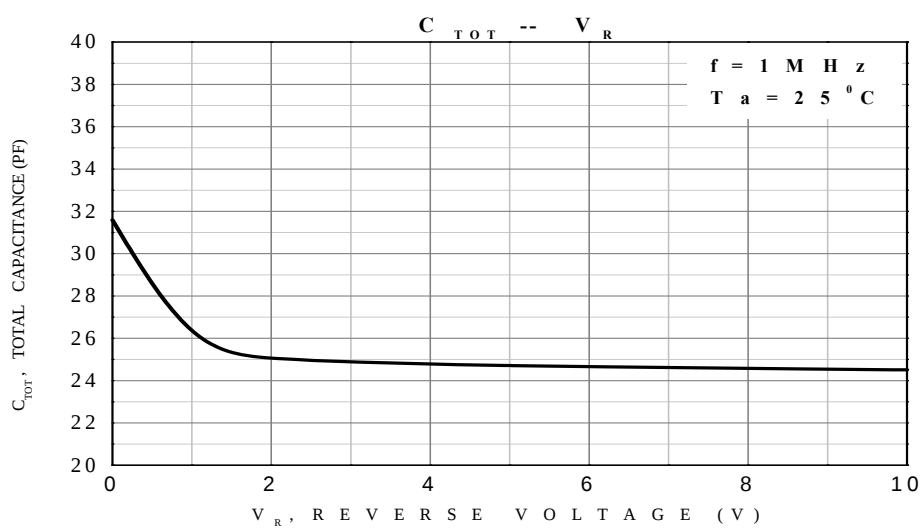
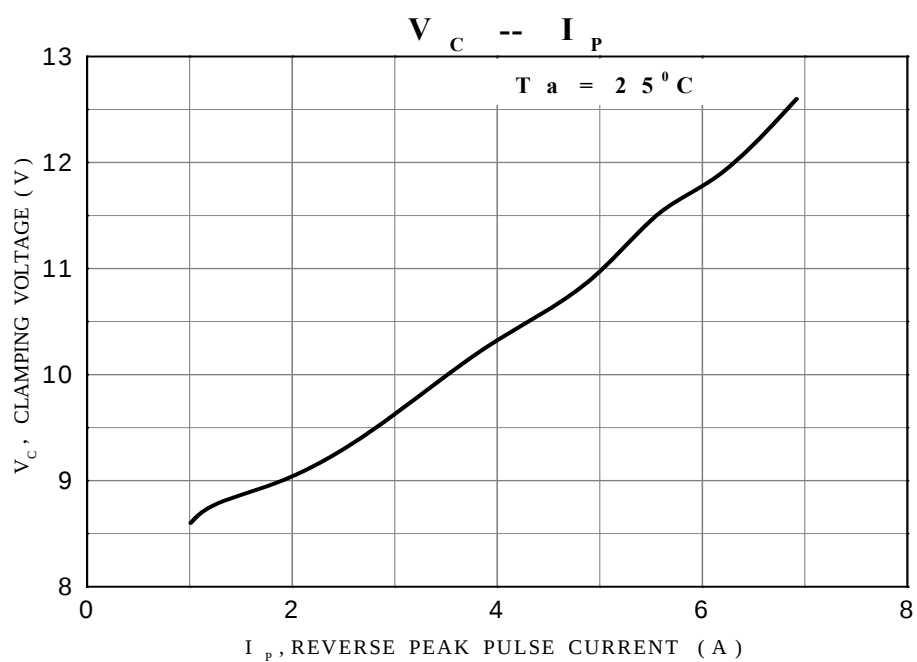
Symbol	Parameter
IT	Test Current
IPP	Maximum Reverse Peak Pulse Current
Vc	Clamping Voltage @Ic



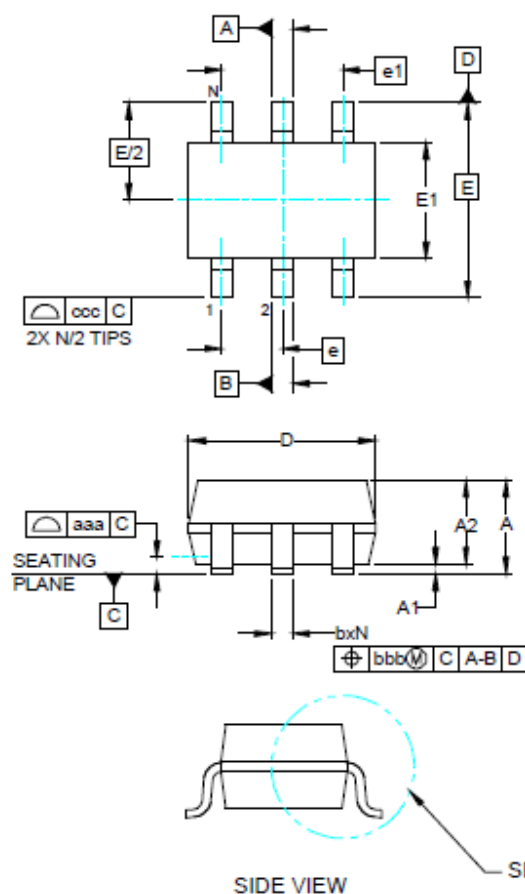
Electrical Characteristics (Ta = 25°C)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
VRWM	Reverse Working Peak Voltage				5	V
VBR	Reverse Breakdown Voltage	IT = 1mA	6		8	V
IR	Reverse Leakage Current	VRWM = 5V			5	μA
VC	Clamping Voltage	IPP = 1A (8/20μs)			10	V
VC	Clamping Voltage	IPP = 6A (8/20μs)			18	V
CJ	Capacitance	VR = 0V, f = 1MHz		50		pF

Typical Performance Curves



SOT-363 Dimension



DIM	INCHES			MILLIMETERS		
	MIN	NOM	MAX	MIN	NOM	MAX
A	-	-	.043	-	-	1.10
A1	.000	-	.004	0.00	-	0.10
A2	.028	.035	.039	0.70	0.90	1.00
b	.006	-	.012	0.15	-	0.30
c	.003	-	.009	0.08	-	0.22
D	.071	.079	.087	1.80	2.00	2.20
E1	.045	.049	.053	1.15	1.25	1.35
E	.083 BSC			2.10 BSC		
e	.026 BSC			0.65 BSC		
e1	.051			1.30 BSC		
L	.010	.014	.018	0.26	0.36	0.46
L1	(.017)			(0.42)		
N	6			6		
θ1	0°	-	8°	0°	-	8°
aaa	.004			0.10		
bbb	.004			0.10		
ccc	.012			0.30		

