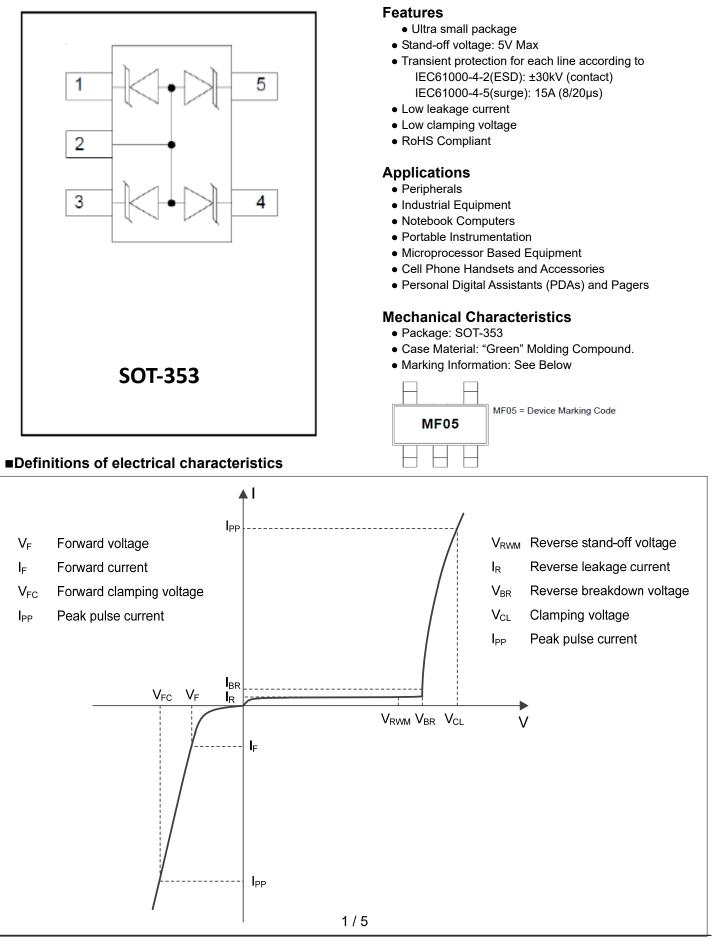
1-Line, Uni-directional, Transient Voltage Suppressor



■Absolute Maximum Ratings (Ta=25°C unless otherwise specified)

PARAMETER	SYMBOL	Rating	UNIT
Peak pulse power (t _p = 8/20µs)	P _{pk}	210	W
Peak pulse current (t _p = 8/20µs)	IPP	15	A
ESD according to IEC61000-4-2 air discharge	N/	±30	KV
ESD according to IEC61000-4-2 contact discharge	Vesd	±30	KV
Junction temperature	TJ	-55~125	°C
Storage temperature	T _{STG}	-55~150	°C

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	UNIT	Conditions	Min	Тур	Max
Reverse maximum working voltage	V _{RWM}	V				5
Reverse leakage current	IR	uA	V _{RWM} =5V			1
Reverse breakdown voltage	VBR	V	I _{BR} = 1mA	6		
	V	V	/ I _{PP} = 1A, t _p = 8/20µs		9	
Clamping voltage ³⁾	VcL	V	I _{PP} = 15A, t _p = 8/20µs			14
Junction capacitance	CJ	pF	V _R = 0V, f = 1MHz		100	

(1). TLP parameter: $Z_0 = 50\Omega$, $t_p = 100$ ns, $t_r = 2$ ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

(2). Contact discharge mode, according to IEC61000-4-2.

(3). Non-repetitive current pulse, according to IEC61000-4-5.

■Ordering Information (Example)

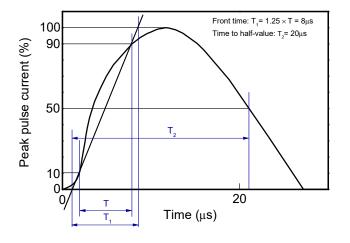
PREFERED P/N	PACKING CODE	UNIT WEIGHT(mg)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
ESD0524T3	F2	Approximate 7	3000	30000	120000	7" reel

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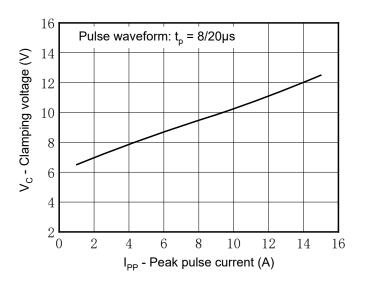


■ Typical Performance Characteristics (Ta=25°C unless otherwise Specified)

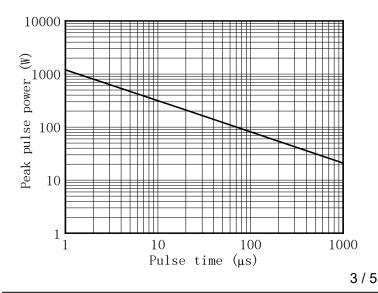
8/20µs waveform per IEC61000-4-5



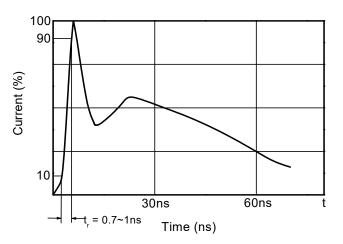
Clamping voltage vs. Peak pulse current



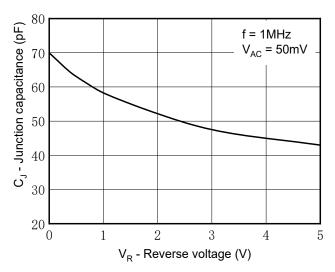
Non-repetitive peak pulse power vs. Pulse time



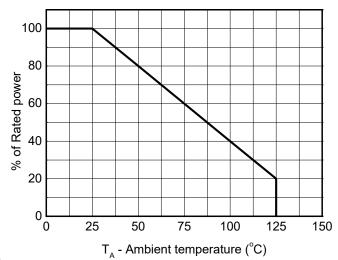
Contact discharge current waveform per IEC61000-4-2



Capacitance vs. Reverse voltage

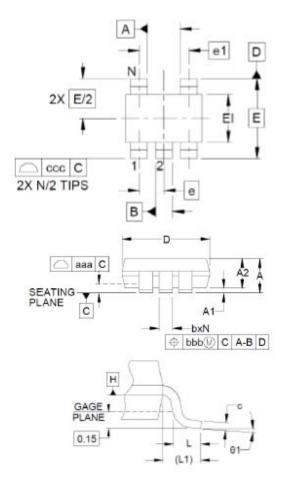


Power derating vs. Ambient temperature



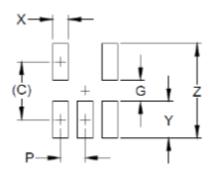
Yangzhou Yangjie Electronic Technology Co., Ltd.

Outline Dimensions



í	DIMENSIONS							
DIM INCHES		S	MILLIMETERS					
DIM	MIN	NOM	MAX	MIN	NOM	MAX		
Α	-	•	.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	.075	.079	.083	1.90	2.00	2.10		
E1	.045	.049	.053	1.15	1.25	1.35		
E	.083 BSC			2	10 BSC			
e	.026 BSC			0	.65 BS			
e1	.051			1	.30 BSC			
L	.010	.014	.018	0.26	0.36	0.46		
L1	(.017)				(0.42)			
N	5				5			
θ1	0°	-	8°	0°	-	8°		
aaa	.004				0.10			
bbb	.004				0.10			
CCC	.012				0.30			

Recommend land pattern



CVM	DIMENSIONS				
SYM	MILLIMETERS	INCHES			
С	1.85	0.073			
G	1.00	0.039			
Р	0.65	0.026			
Х	0.40	0.016			
Y	0.85	0.033			
Z	2.70	0.106			

Notes:

This recommended land pattern is for reference purposes only. Please consult your manufacturing group to ensure your PCB design guidelines are met

ESD0524T3

Disclaimer

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