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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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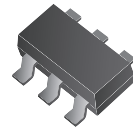
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CSRV065V0P RoHs Device



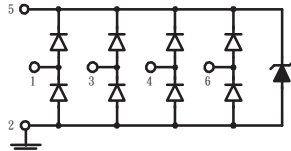
Features

- ESD Protect for 4 high-speed I/O channels.
- IEC61000-4-2 Level 4 ESD protection.
- IEC61000-4-4 (FET)20A for I/O,80A for Power.
- Working voltage: 5V
- Low capacitance:1.3pF(Typ.).
- High component density.

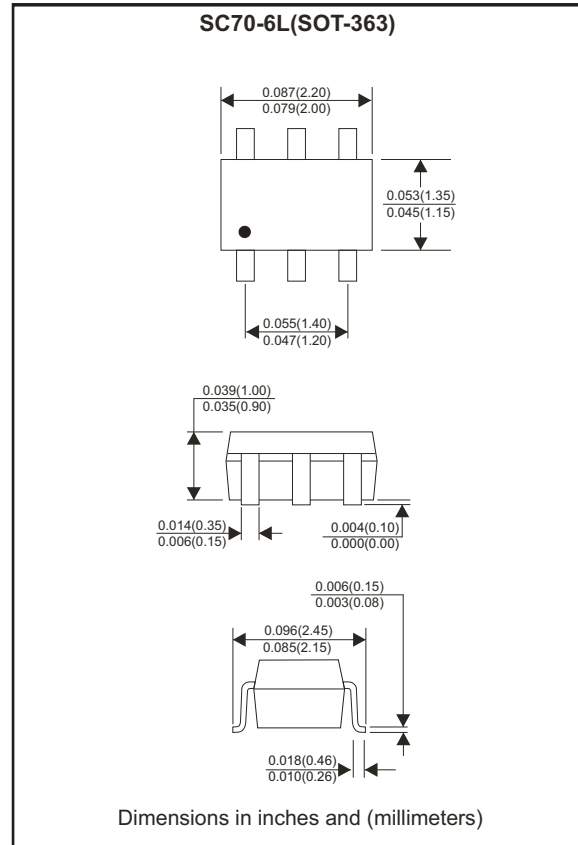
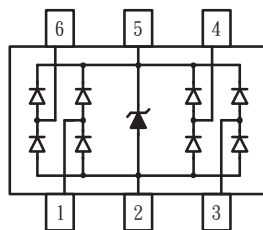
Mechanical data

- Case: SC70-6L(SOT-363) standard package, molded plastic.
- Terminals: Solder plated, solderable per MIL-STD-750,method 2026.
- Mounting position: Any
- Weight: 0.0091 gram(approx.).

Circuit Diagram



Pin Configuration



Maximum Ratings (at TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak pulse current (tp = 8/20 us)	I _{PP}	6.5	A
Operating supply voltage	V _{DC}	6	V
ESD per IEC 61000-4-2(Air) ESD per IEC 61000-4-2(Contact)	ESD	18 14	kV
ESD per IEC 61000-4-2(Air)(VDD-GND) ESD per IEC 61000-4-2(Contact)(VDD-GND)	ESD _{VDD}	30	kV
Lead soldering temperature	T _{SOL}	260 (10 sec)	°C
Operating temperature	T _J	-55 to +85	°C
Storage temperature	T _{STG}	-55 to +125	°C
DC voltage at any I/O pin	V _{IO}	(GND -0.5) to (VDD +0.5)	V

Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse stand-Off voltage	Pin 5 to Pin 2	V_{RWM}			5	V
Reverse leakage current	$V_{RWM} = 5\text{ V}$, Pin 5 to Pin 2	I_R			5	μA
	$V_{PIN\ 5} = 5\text{ V}$, $V_{PIN\ 2} = 0\text{ V}$, $V_{IO} = 0\sim 5\text{ V}$				1	
Diode breakdown voltage	$I_R = 1\text{ mA}$, Pin 5 to Pin 2	V_{BD}	6		9	V
Forward voltage	$I_F = 15\text{ mA}$, Pin 2 to Pin 5	V_F		0.8	1	V
Clamping voltage	$I_{PP} = 5\text{ A}$, $t_p = 8/20\mu\text{s}$, Any Channel Pin to Ground	V_C		8.1	9	V
	IEC 61000-4-2 +6kV, Contact mode Any Channel Pin to Ground			12.5		
	IEC 61000-4-2 +6kV, Contact mode VDD Pin to Ground			9		
Junction capacitance	$V_{pin5} = 5\text{ V}$, $V_{pin2} = 0\text{ V}$, $V_{IO} = 2.5\text{ V}$, $f = 1\text{ MHz}$, Any Channel Pin to Ground	C_j		1.3	1.6	pF
	$V_{pin5} = 5\text{ V}$, $V_{pin2} = 0\text{ V}$, $V_{IO} = 2.5\text{ V}$, $f = 1\text{ MHz}$, Between Channel Pins			0.12	0.14	
	$V_{pin5} = 5\text{ V}$, $V_{pin2} = 0\text{ V}$, $V_{IN} = 2.5\text{ V}$, $f = 1\text{ MHz}$, Channel_x pin to ground - channel_y pin to ground			0.05	0.07	

RATING AND CHARACTERISTIC CURVES (CSR065V0P)

Fig. 1 - Power derating curve

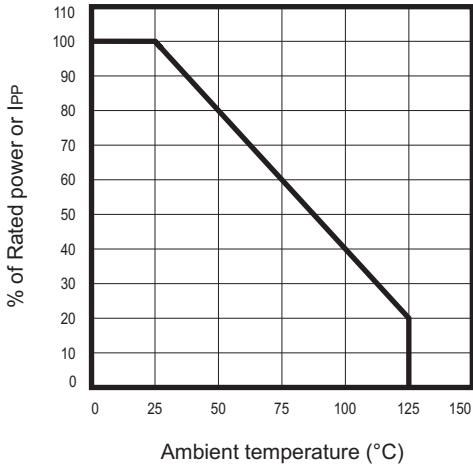


Fig. 2 - Clamping voltage vs. Peak pulse current

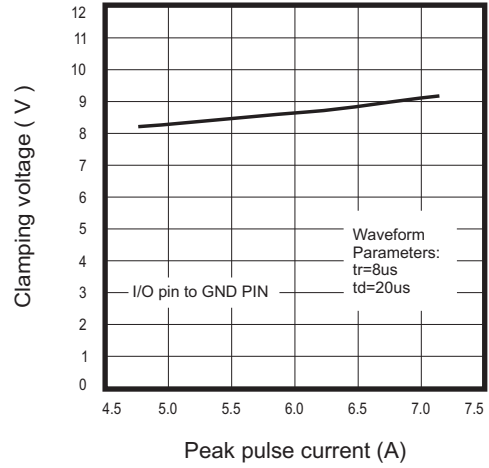


Fig.3 - Forward voltage v.s. forward current

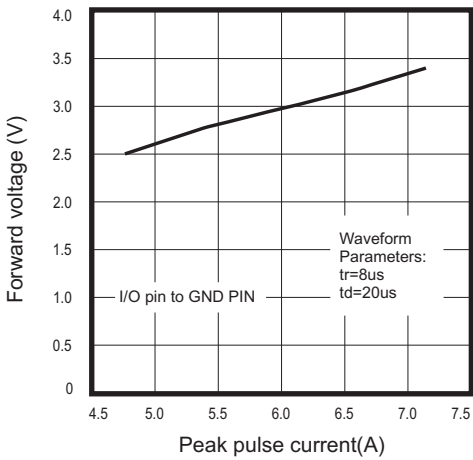


Fig.4 - Typical variation of C_{IN} v.s. V_{IN}

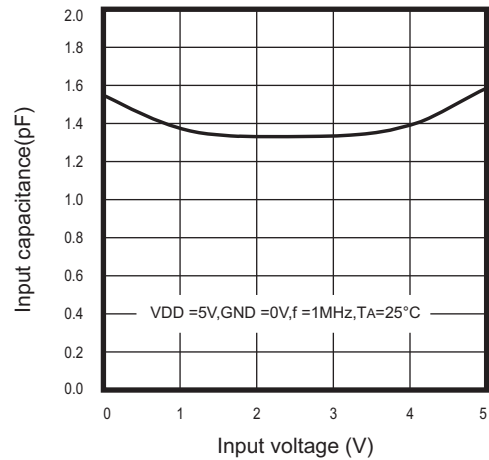


Fig. 5 - Typical variation of C_{IN} v.s. temperature

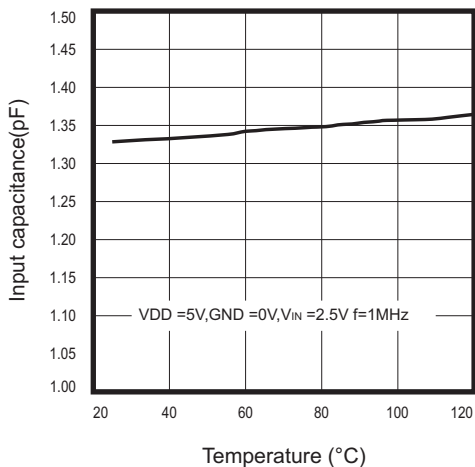


Fig. 6 - Transmission line pulsing (TLP) measurement

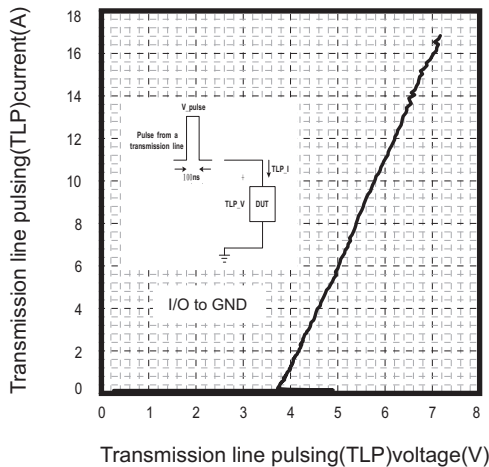
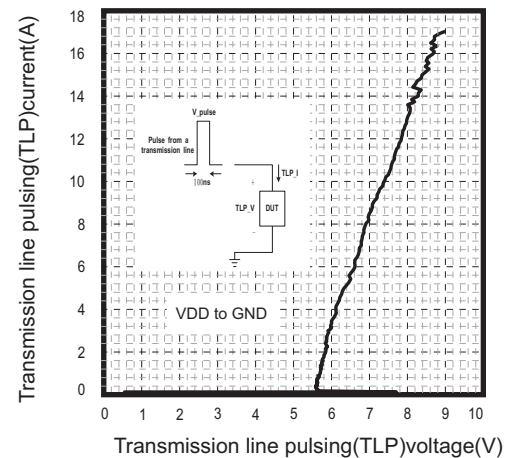
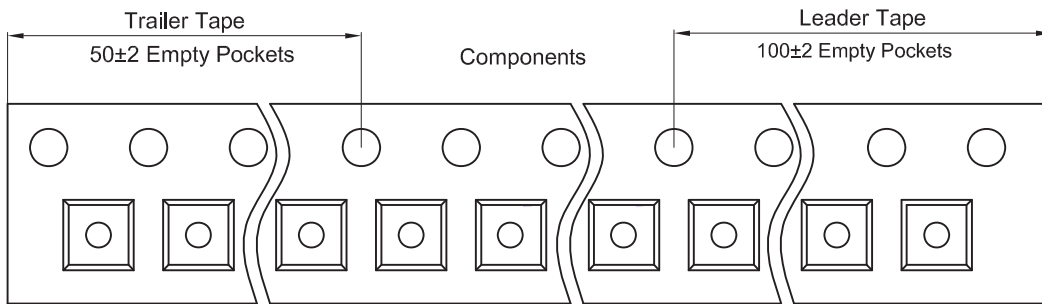
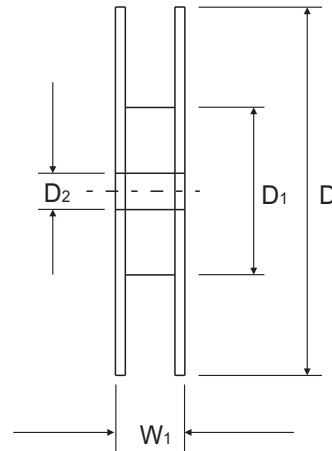
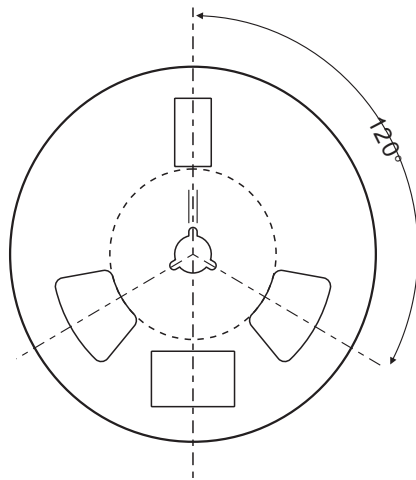
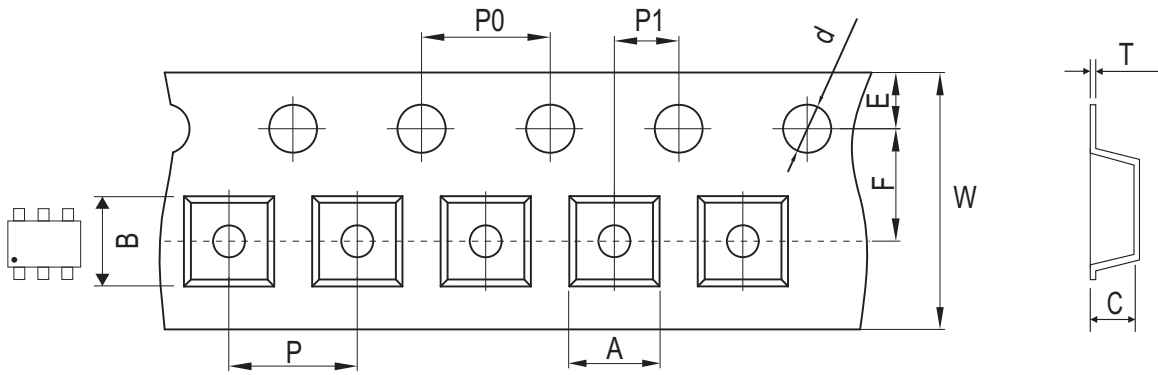


Fig.7 -Transmission line pulsing (TLP) measurement



Reel Taping Specification

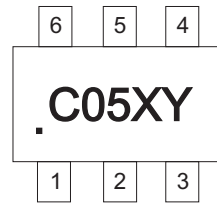


SOT-363	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	2.25 ± 0.05	2.55 ± 0.05	1.20 ± 0.05	1.50 ± 0.10	178 ± 2.00	54.40 ± 1.00	13.00 ± 1.00
	(inch)	0.089 ± 0.002	0.100 ± 0.002	0.047 ± 0.002	0.059 ± 0.004	7.008 ± 0.079	2.142 ± 0.039	0.512 ± 0.039

SOT-363	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	8.00 + 0.30 / - 0.10	12.30 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.315 + 0.012 / - 0.004	0.484 ± 0.039

Marking Code

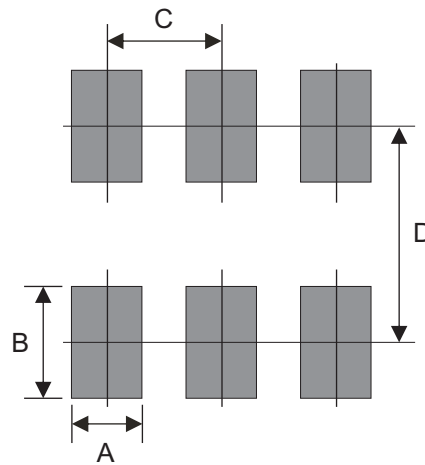
Part Number	Marking Code
CSRV065V0P	C05XY



C05 = Device code
 X = Date Code
 Y = Control Code

Suggested PAD Layout

SIZE	SOT-363	
	(mm)	(inch)
A	0.40	0.016
B	0.80	0.031
C	0.65	0.026
D	1.94	0.076



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
SOT-363	3,000	7