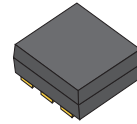


CPDVR065V0U-HF

RoHS Device



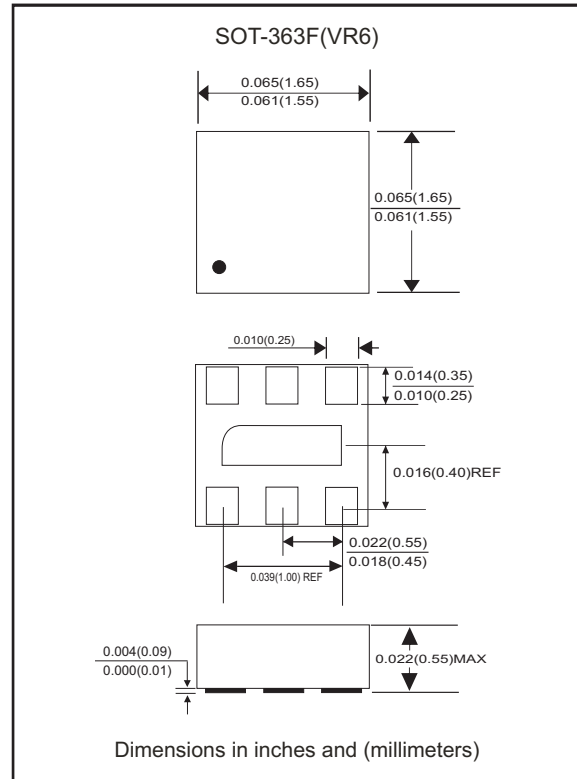
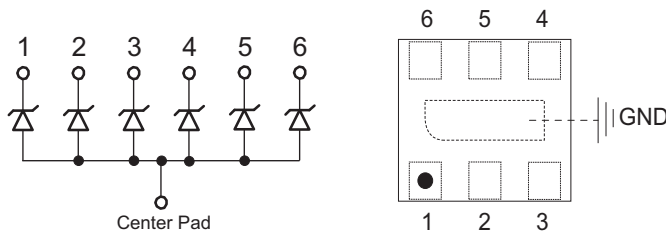
Features

- Halogen free.
- Uni-directional ESD protection.
- Working voltage: 5V

Mechanical data

- Case: SOT-363F Standard package ,
molded plastic.
- Terminals: Gold plated, solderable per
MIL-STD-750, method 2026.
- Marking Code: E5U
- Mounting position: Any.

Circuit Diagram & Package



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

Parameter	Symbol	Value	Unit
Peak pulse current (tp = 8/20 us)	I _{PPM}	2	A
Peak pulse power (tp = 8/20 us) to ground	P _{PP}	26	W
ESD per IEC 61000-4-2(Air) ESD per IEC 61000-4-2(Contact)	V _{ESD}	±15	kV
Operating temperature (Junction temperature)	T _J	-40 to +125	°C
Storage temperature	T _{STG}	-55 to +150	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 10mA	V _F		0.8		V
Reverse current	V _R = 5 V	I _R		<0.01	0.1	uA
Reverse break down voltage	I _R = 1 mA	V _{BR}	6			V
Reverse Clamping voltage	I _{PP} = 1 A , Tp=8/20us,Any Channel Pin to Ground	V _C			11	V
	I _{PP} = 2 A, Tp=8/20us,Any Channel Pin to Ground	V _C			13	V
Forward Clamping voltage	I _{PP} = 1 A , Tp=8/20us,Any Channel Pin to Ground	V _{CR}		2	2.5	V
	I _{PP} = 2.5 A, Tp=8/20us,Any Channel Pin to Ground	V _{CR}		3.2	4	V
Junction capacitance	V _R =0V, f = 1MHz,Any channel Pin to Ground	C _T		11	15	pF

RATING AND CHARACTERISTIC CURVES (CPDVR065V0U-HF)

Fig. 1 - 8/20us Peak Pulse Current Wave Form acc. IEC 61000-4-5

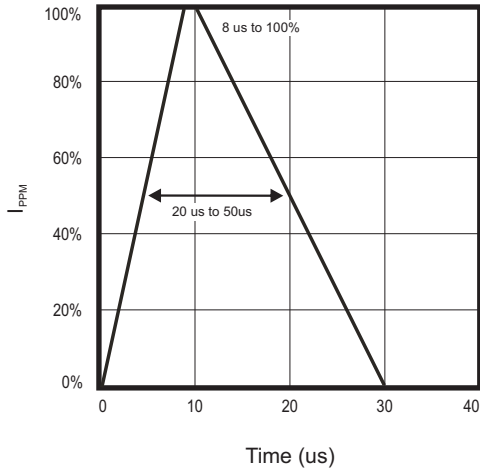


Fig. 2 - ESD Discharge Current Wave Form acc. IEC 61000-4-2(330Ω/150pF)

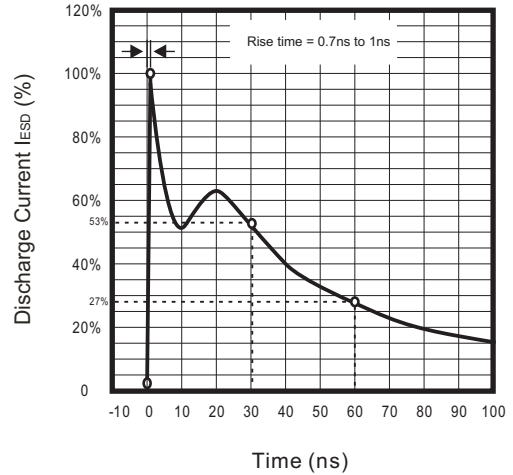


Fig.3 - Reverse Voltage V_R vs. Reverse Current I_R

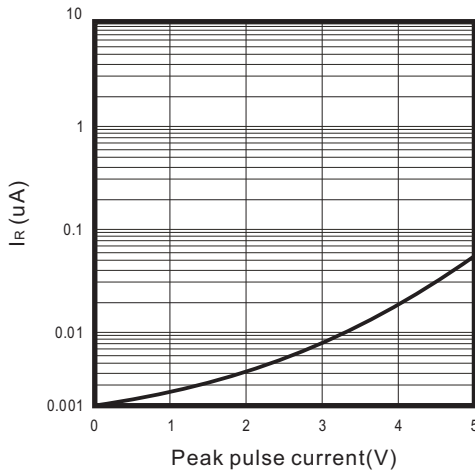


Fig.4 - Forward Voltage I_F vs. Forward current V_F

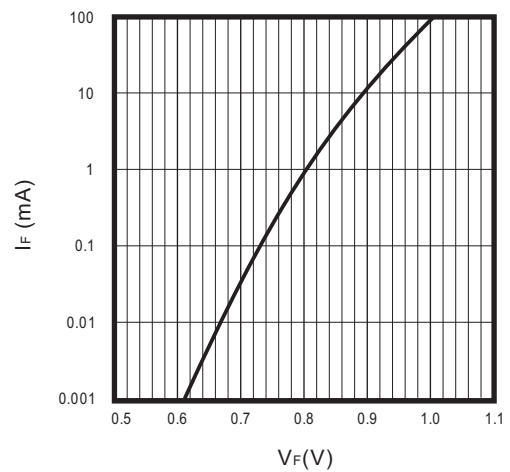


Fig.5 - Junction Capacitance vs. Reverse Voltage

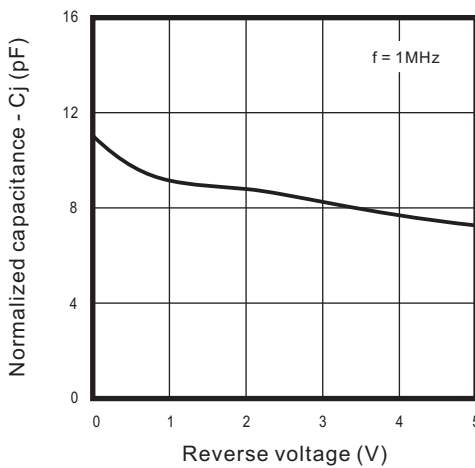
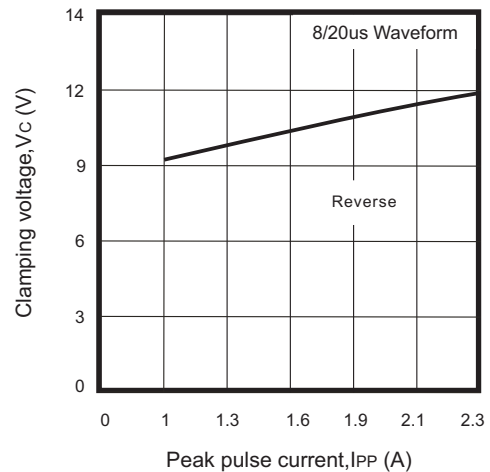
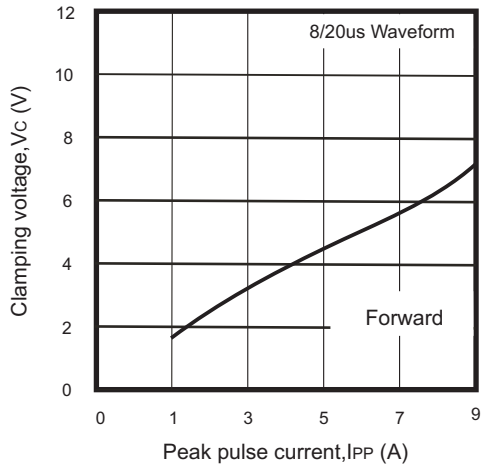


Fig. 6 - Clamping Voltage vs. Peak Pulse Current I_{PP}

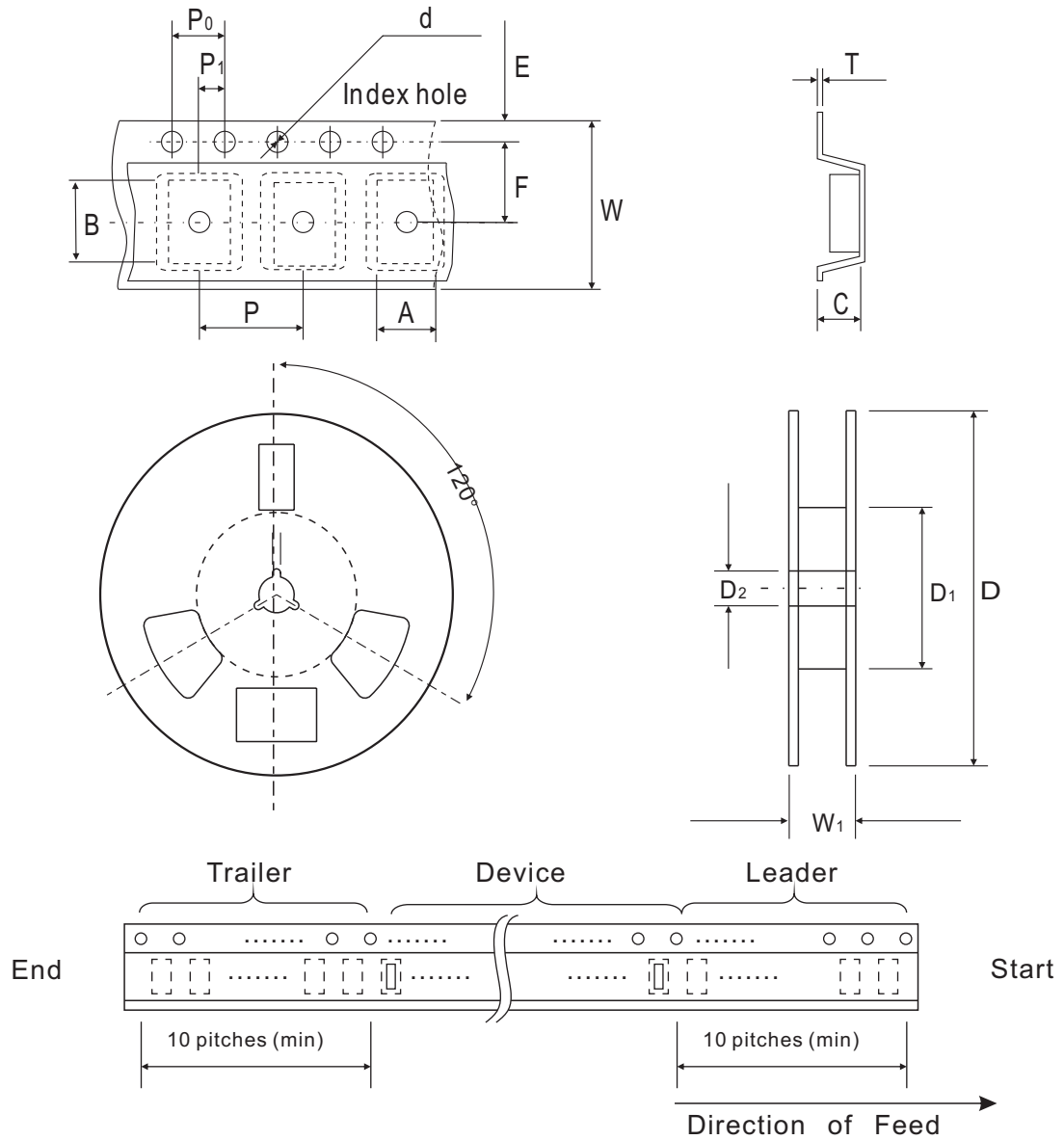


RATING AND CHARACTERISTIC CURVES (CPDVR065V0U-HF)

Fig. 7 - Typical Clamping Voltage Vs Peak Pulse Current I_{PP}



Reel Taping Specification



SOT-363F	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	1.78 ± 0.10	1.78 ± 0.10	0.62 ± 0.10	1.50 ± 0.10	178 ± 1.00	54.40 ± 0.40	12.30 ± 0.20
	(inch)	0.070 ± 0.004	0.070 ± 0.004	0.024 ± 0.004	0.059 ± 0.004	7.008 ± 0.039	2.142 ± 0.016	0.484 ± 0.008

SOT-363F	SYMBOL	E	F	P	P ₀	P ₁	W	W ₁
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	8.00 + 0.30 / - 0.10	9.50 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.158 ± 0.004	0.158 ± 0.004	0.079 ± 0.004	0.315 + 0.011 / - 0.004	0.374 ± 0.039

Marking Code

Part Number	Marking Code
CPDVR065V0U-HF	E5U



Standard Package

Case Type	Qty per Reel	Reel Size
	(Pcs)	(inch)
SOT-363F(VR6)	3000	7