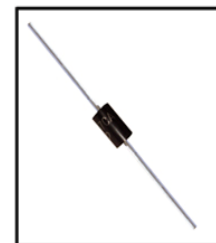


特性/机械性能:
FEATURES/MECHANICAL DATA

- ◆ 1500W 峰值脉冲功率 1500W peak pulse power capability
- ◆ 优良的箝制能力 Excellent clamping capability
- ◆ 较小的箝位因子 Smaller clamping factor
- ◆ 快速响应时间: 从: 0 v到 VBR, 单向型小于1.0ps, 双向型小于5.0ns
Fast response time: typically less than 1.0ps from 0v to VBR for unidirectional and 5.0ns for bidirectional types.
- ◆ 耐焊接热: 250℃/10S, 引出端0.375" (9.5mm) 处
Resistance to soldering heat: 250 °C /10S, terminal 0.375" (9.5mm) mm.
- ◆ 封装: 模塑封装 Case: Molded plastic
- ◆ 塑封材料: 用UL94V-0认可的阻燃环氧料 Epoxy: UL94V-0 rate flame retardant
- ◆ 引线: 电镀轴式引线可焊性符合MIL-STD-202,方法208
Lead: Axial lead solderable per MIL-STD-202, method 208
- ◆ 极性: 色带表示阴极, Polarity: Color band denotes cathode except Bipolar
- ◆ 安装位置: 任意 Mounting position: Any



DO-201AE

最大额定值及电气特性:
MAXIMUM RATINGS AND CHARACTERISTICS

测量环境温度为25℃, 除非另有规定。

Rating at 25℃ ambient temperature unless otherwise specified.

参数名称 Papt Number	符号Symbol	额定值 Value	单位Unit
最大峰值脉冲功率 Peak power dissipation	Pppm	最小 (Min) 1500	W
最大峰值反向脉冲电流 (注释1) Peak pulse reverse current (Note1)	Ippm	见表 (See Table)	A
稳态功率 (注释2) Steady state power dissipation (Note2)	Pm(AV)	5.0	W
最大峰值正向浪涌电流(注释3) 仅对单向型 Maximum Peak Forward surge Current (Note3)For unidirectional only	IFSM	200.0	A
工作及储存温度 Operating and Storage Temperature Range	TJ,TSTG	-65~+175	℃

注 释: NOTES:

1. 脉冲电流时间10 / 1000μs。 10 / 1000μs waveform non-repetitive current pulse
2. T1=75℃, 在引线9.5mm处, 安装面积为 (40×40×1mm) 的散热铜片。
T1=75℃, lead lengths 0.375inches, Mounted on copper pad area of (40×40×1mm)
3. 使用单相正弦半波, 时间10ms; 或使用等效的方波, 4周波/分。
Measured on 10ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

双向型器件应用说明: DEVICES FOR BIDIRECTIONAL APPLICATIONS :

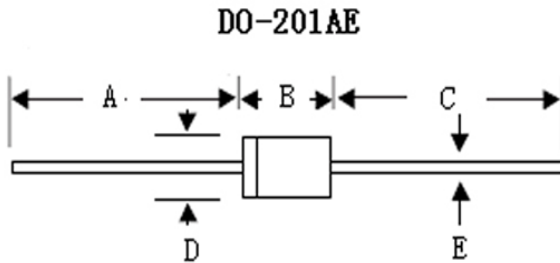
1. 在型号名称后注有C 或CA, 表示双向型。 For bidirectional use C or CA suffix for types
2. 电气特性适用于两个方向。 Electrical characteristics apply in both directions.

[ULCE Series]

Transient Voltage Suppressor 瞬变电压抑制二极管 TVS

产品外形尺寸:

PRODUCT APPEARANCE SIZE



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	1.0		25.4	
B	0.335	0.375	8.5	9.5
C	1.0		25.4	
D	0.197	0.220	5.0	5.6
E	0.0380	0.0420	0.96	1.06

电特性:

ELECTRICAL CHARACTERISTICS

型号	击穿电压		测试电流	变位电压	最大反向漏 电流@VWM	最大峰值 脉冲浪涌 电流	最大箝位 电压 @Ippm	反向工作 截止电压	最大反向 截止电流 @ VW IB	峰值反向 截止电压	最大结电容
	V(BR)(注释1)		IT	VWM	Id(注释2)	Ippm	Vc	VWIB	IIB	VPIB	
	V最小	V最大	mA	V	A	A	V	(V)	mA	(V)	PF
ULCE6.5	7.22	8.82	10	6.5	1000	100	12.3	75	1.0	100	35
ULCE6.5A	7.22	7.98	10	6.5	1000	100	11.2	75	1.0	100	35
ULCE7.0	7.78	9.51	10	7.0	500	100	13.3	75	1.0	100	35
ULCE7.0A	7.78	8.60	10	7.0	500	100	12.0	75	1.0	100	35
ULCE7.5	8.33	10.2	10	7.5	250	100	14.3	75	1.0	100	35
ULCE7.5A	8.33	9.21	10	7.5	250	100	12.9	75	1.0	100	35
ULCE8.0	8.89	10.9	10	8.0	100	100	15.0	75	1.0	100	35
ULCE8.0A	8.89	9.83	10	8.0	100	100	13.6	75	1.0	100	35
ULCE8.5	9.44	11.5	1.0	8.5	50	94	15.9	75	1.0	100	35
ULCE8.5A	9.44	10.4	1.0	8.5	50	100	14.4	75	1.0	100	35
ULCE9.0	10.0	12.2	1.0	9.0	10.0	89	16.9	75	1.0	100	35
ULCE9.0A	10.0	11.1	1.0	9.0	10.0	97	15.4	75	1.0	100	35
ULCE10	11.1	13.6	1.0	10	5.0	80	18.8	75	1.0	100	35
ULCE10A	11.1	12.3	1.0	10	5.0	88	17.0	75	1.0	100	35
ULCE11	12.2	14.9	1.0	11	5.0	74	20.1	75	1.0	100	35
ULCE11A	12.2	13.5	1.0	11	5.0	82	18.2	75	1.0	100	35
ULCE12	13.3	16.3	1.0	12	5.0	68	22.0	75	1.0	100	35
ULCE12A	13.3	14.7	1.0	12	5.0	75	19.9	75	1.0	100	35
ULCE13	14.4	17.6	1.0	13	5.0	63	23.8	75	1.0	100	35
ULCE13A	14.4	15.9	1.0	13	5.0	70	21.5	75	1.0	100	35
ULCE14	15.6	19.1	1.0	14	5.0	58	25.8	75	1.0	100	35
ULCE14A	15.6	17.2	1.0	14	5.0	65	23.2	75	1.0	100	35
ULCE15	16.7	20.4	1.0	15	5.0	56	26.9	75	1.0	100	35
ULCE15A	16.7	18.5	1.0	15	5.0	61	24.4	75	1.0	100	35
ULCE16	17.8	21.8	1.0	16	5.0	52	28.8	75	1.0	100	35
ULCE16A	17.8	19.7	1.0	16	5.0	57	26.0	75	1.0	100	35
ULCE17	18.9	23.1	1.0	17	5.0	49	30.5	75	1.0	100	35

电特性:
ELECTRICAL CHARACTERISTICS

型号	击穿电压		测试电流	变位电压	最大反向漏 电流@V _{WM}	最大峰值 脉冲浪涌 电流	最大箝位 电压 @I _{ppm}	反向工作 截止电压	最大反向 截止电流 @ V _{W IB}	峰值反向 截止电压	最大结电容
	V _(BR) (注释1)		I _T	V _{WM}	I _D (注释2)	I _{PPM}	V _C	V _{WIB}	I _{IB}	V _{PIB}	
	V _{最小}	V _{最大}	mA	V	A	A	V	(V)	mA	(V)	PF
ULCE17A	18.9	20.9	1.0	17	5.0	54	27.6	75	1.0	100	35
ULCE18	20	24.4	1.0	18	5.0	46	32.2	75	1.0	100	35
ULCE18A	20	22.1	1.0	18	5.0	51	29.2	75	1.0	100	35
ULCE20	22.2	27.1	1.0	20	5.0	42	35.8	75	1.0	100	35
ULCE20A	22.2	24.5	1.0	20	5.0	46	32.4	75	1.0	100	35
ULCE22	24.4	29.8	1.0	22	5.0	38	39.4	75	1.0	100	35
ULCE22A	24.4	26.9	1.0	22	5.0	42	35.5	75	1.0	100	35
ULCE24	26.7	32.6	1.0	24	5.0	35	43.0	75	1.0	100	35
ULCE24A	26.7	29.5	1.0	24	5.0	39	38.9	75	1.0	100	35
ULCE26	28.9	35.3	1.0	26	5.0	32	46.6	75	1.0	100	35
ULCE26A	28.9	31.9	1.0	26	5.0	36	42.1	75	1.0	100	35
ULCE28	31.1	38.0	1.0	28	5.0	30	50.1	75	1.0	100	35
ULCE28A	31.1	34.4	1.0	28	5.0	33	45.5	75	1.0	100	35
ULCE30A	33.3	36.8	1.0	30	5.0	31	48.4	75	1.0	100	35
ULCE33	36.7	44.9	1.0	33	5.0	25.4	59.0	75	1.0	100	35
ULCE33A	36.7	40.6	1.0	33	5.0	28.1	53.3	75	1.0	100	35
ULCE36	40.0	48.9	1.0	36	5.0	23.3	64.3	75	1.0	100	35
ULCE36A	40.0	44.2	1.0	36	5.0	25.8	58.1	75	1.0	100	35
ULCE40	44.4	54.3	1.0	40	5.0	21	71.4	75	1.0	100	35
ULCE40A	44.4	49.1	1.0	40	5.0	23.3	64.5	75	1.0	100	35
ULCE43	47.8	58.4	1.0	43	5.0	19.5	76.7	150	1.0	200	35
ULCE43A	47.8	52.8	1.0	43	5.0	21.6	69.4	150	1.0	200	35
ULCE45	50.0	61.1	1.0	45	5.0	18.7	80.3	150	1.0	200	35
ULCE45A	50.0	55.3	1.0	45	5.0	20.6	72.7	150	1.0	200	35
ULCE48	53.3	65.1	1.0	48	5.0	17.5	85.5	150	1.0	200	35
ULCE48A	53.3	58.9	1.0	48	5.0	19.4	77.4	150	1.0	200	35
ULCE51	56.7	69.3	1.0	51	5.0	16.5	91.1	150	1.0	200	35
ULCE51A	56.7	62.7	1.0	51	5.0	18.2	82.4	150	1.0	200	35
ULCE54	60.0	73.3	1.0	54	5.0	15.6	96.3	150	1.0	200	35
ULCE54A	60.0	66.3	1.0	54	5.0	17.2	87.1	150	1.0	200	35
ULCE58	64.4	78.7	1.0	58	5.0	14.6	103	150	1.0	200	35
ULCE58A	64.4	71.2	1.0	58	5.0	16	93.6	150	1.0	200	35
ULCE60	66.7	81.5	1.0	60	5.0	14	107	150	1.0	200	35
ULCE60A	66.7	73.7	1.0	60	5.0	15.5	96.8	150	1.0	200	35
ULCE64	71.1	86.9	1.0	64	5.0	13.2	114	150	1.0	200	35
ULCE64A	71.1	78.6	1.0	64	5.0	14.6	103	150	1.0	200	35
ULCE70	77.8	95.1	1.0	70	5.0	12	125	150	1.0	200	35
ULCE70A	77.8	86.0	1.0	70	5.0	13.3	113	150	1.0	200	35

电特性:

ELECTRICAL CHARACTERISTICS

型号	击穿电压		测试电流	变位电压	最大反向漏 电流@VWM	最大峰值 脉冲浪涌 电流	最大箝位 电压 @Ippm	反向工作 截止电压	最大反向 截止电流 @ VW IB	峰值反向 截止电压	最大结电容
	V _(BR) (注释1)		I _T	V _{WM}	I _D (注释2)	I _{PPM}	V _C	V _{WIB}	I _{IB}	V _{PIB}	
	V _{最小}	V _{最大}	mA	V	A	A	V	(V)	mA	(V)	PF
ULCE75	83.3	102	1.0	75	5.0	11.2	134	150	1.0	200	35
ULCE75A	83.3	92.1	1.0	75	5.0	12.4	121	150	1.0	200	35
ULCE80	88.7	108	1.0	80	5.0	10.6	142	150	1.0	200	35
ULCE80A	88.7	98.0	1.0	80	5.0	11.6	129	150	1.0	200	35
ULCE90	100	122	1.0	90	5.0	9.4	160	300	1.0	200	35
ULCE90A	100	111	1.0	90	5.0	10.3	146	300	1.0	200	35

特性曲线图:

RATINGS AND CHARACTERISTIC CURVES

FIG.1 - PEAK PULSE POWER RATING CURVE

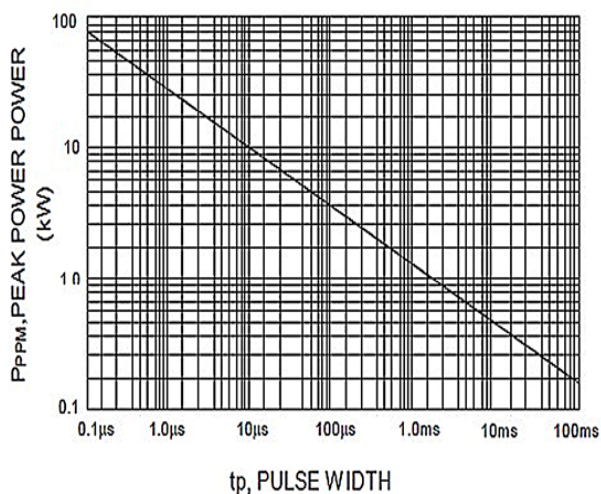


FIG.2 - PULSE DERATING CURVE

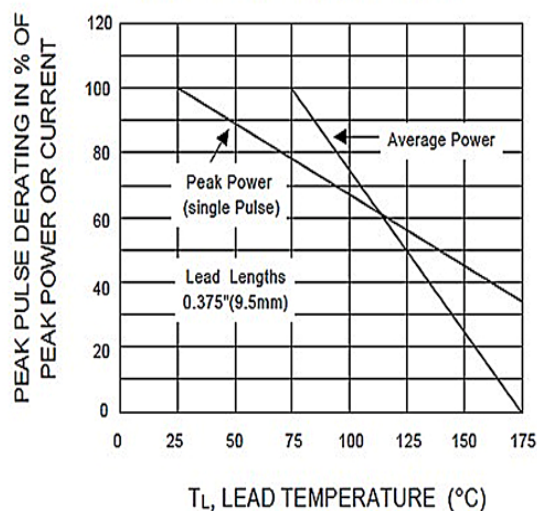


FIG.3 - PULSE WAVEFORM

