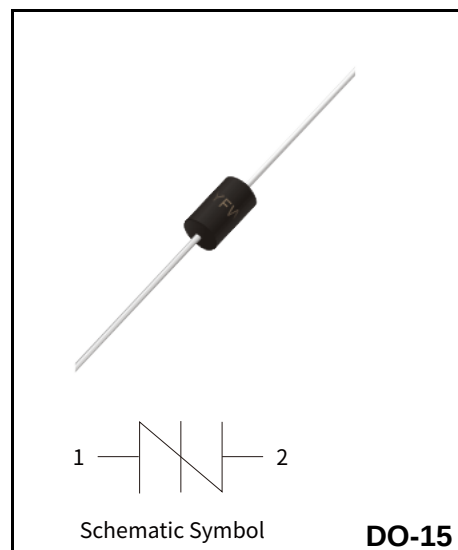


Thyristor Surge Suppressors

Reverse Voltage 6.0 ~ 390 V

Features

- ◆ Low reverse leakage
- ◆ High reliability
- ◆ High temperature soldering guaranteed:
260°C/10seconds
- ◆ Lead and body according with RoHS standard
- ◆ Have low capacitance, making them ideal for
high-speed transmission equipment
- ◆ Will not fatigue
- ◆ Are non-degenerative
- ◆ Eliminate voltage overshoot caused by
fast-rising transients
- ◆ Cannot be damaged by voltage



MECHANICAL DATA

- ◆ Case: DO-15
- ◆ Epoxy: UL 94V-0 rate flame retardant
- ◆ Lead: Pure tin plated, lead free
- ◆ Green compound

Electrical Parameters

Parameter	Definition
V_{DRM}	Peak Off-state Voltage – maximum voltage that can be applied while maintaining off state
V_S	Switching Voltage – maximum voltage prior to switching to on state
V_T	On-state Voltage – maximum voltage measured at rated on-state current
I_{DRM}	Leakage Current – maximum peak off-state current measured at V_{DRM}
I_S	Switching Current – maximum current required to switch to on state
I_T	On-state Current – maximum rated continuous on-state current
I_H	Holding Current – minimum current required to maintain on state
C_O	Off-state Capacitance – typical capacitance measured in off state
V_{PP}	Peak Pulse Voltage – maximum rated peak impulse voltage
I_{PP}	Peak Pulse Current – maximum rated peak impulse current

Electrical Characteristics

Part Number	Marking	V_{DRM} (V)	V_S (V)	V_T (V)	I_{DRM} (μA)	I_S (mA)	I_T (A)	I_H (mA)	C_O (pF)	V_{PP} 10/700us (V)	I_{PP} 10/1000us (A)
P0060LA	P006A	6.0	25	4.0	5.0	800	2.2	50	50	3000	75
P0080LA	P008A	6.0	25	4.0	5.0	800	2.2	50	50	3000	75
P0300LA	P030A	25	40	4.0	5.0	800	2.2	50	70	3000	75
P0640LA	P064A	58	77	4.0	5.0	800	2.2	150	50	3000	75
P0720LA	P072A	65	88	4.0	5.0	800	2.2	150	50	3000	75
P0900LA	P090A	75	98	4.0	5.0	800	2.2	150	45	3000	75
P1100LA	P110A	90	130	4.0	5.0	800	2.2	150	45	3000	75
P1300LA	P130A	120	160	4.0	5.0	800	2.2	150	45	3000	75
P1500LA	P150A	140	180	4.0	5.0	800	2.2	150	40	3000	75
P1800LA	P180A	170	220	4.0	5.0	800	2.2	150	40	3000	75
P2300LA	P230A	190	260	4.0	5.0	800	2.2	150	35	3000	75
P2600LA	P260A	220	300	4.0	5.0	800	2.2	150	35	3000	75
P3100LA	P310A	275	350	4.0	5.0	800	2.2	150	30	3000	75
P3500LA	P350A	320	400	4.0	5.0	800	2.2	150	30	3000	75
P4200LA	P420A	390	500	4.0	5.0	800	2.2	150	30	3000	75

Note:

- 1) All measurements are made at an ambient temperature of 25°C. I_{PP} applies to -40°C through +85°C temperature range.
- 2) Off-state capacitance (C_O) is measured at 1 MHz with a 2 V bias and is typical value.

Thermal Considerations

Package	Symbol	Parameter	Value	Unit
DO-15	T_J	Operating Junction Temperature	-40 to +150	°C
	T_S	Storage Temperature Range	-40 to +150	°C
	R_{JA}	Junction to Ambient on printed circuit	45	°C/W

Characteristics Curves

Figure 1. V-I Characteristics

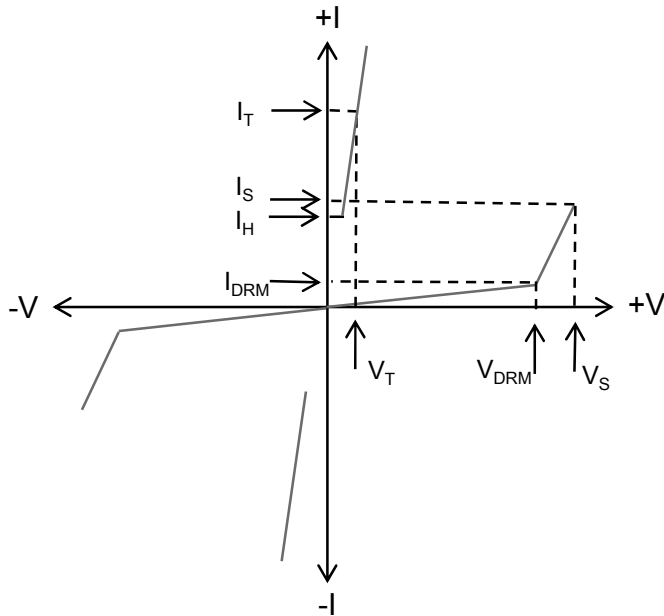


Figure 2. $t_r \times t_d$ Pulse Wave-form

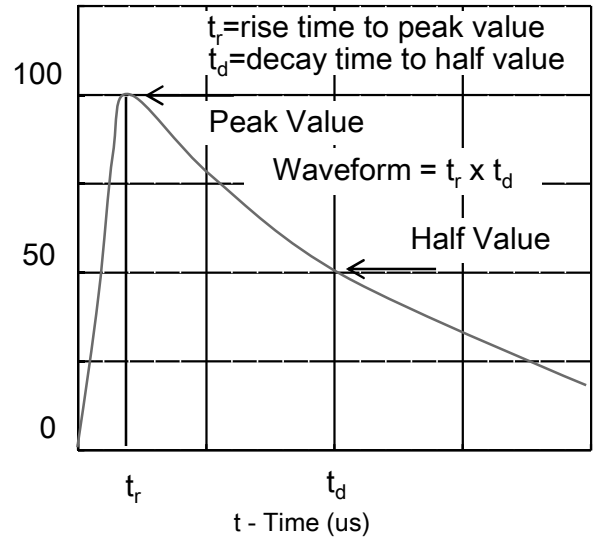


Figure 3. Normalized V_S Change versus Junction Temperature

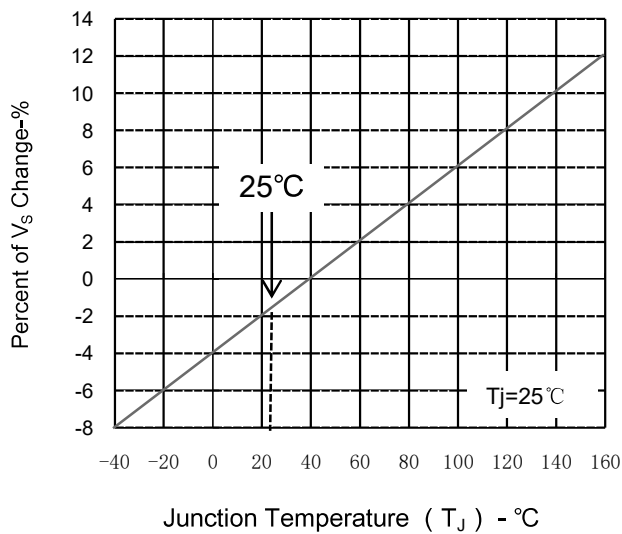
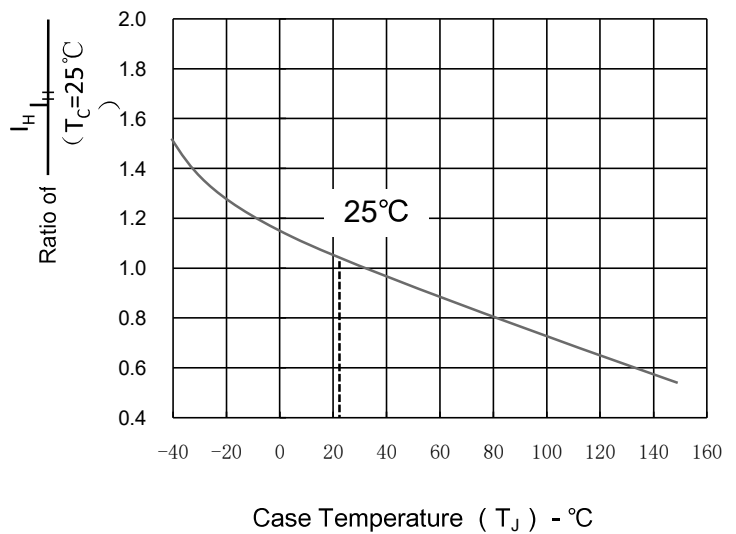


Figure 4. Normalized DC Holding Current versus Case Temperature



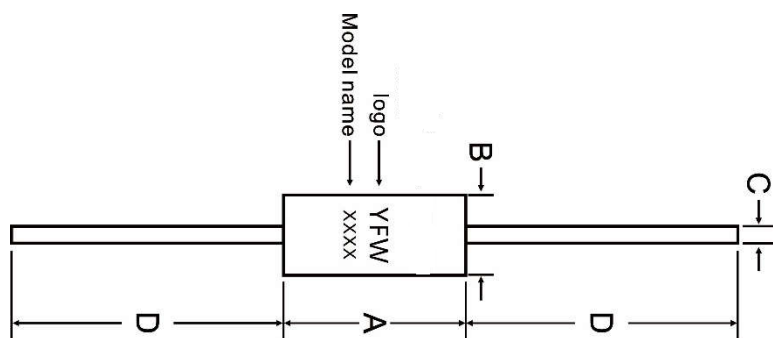
Ordering information

Package	Packing Description	Packing Quantity
DO-15	bulk	500PCS/Inner Box 30000PCS/Carton
	ammo pack	3000PCS/Inner Box 30000PCS/Carton

Package Dimensions

DO-15

Dim.	Millimeter(mm)		INCHES	
	Min.	Max.	Min.	Max.
A	5.80	7.60	0.230	0.300
B	2.60	3.60	0.104	0.140
C	0.71	0.86	0.028	0.034
D	25.4	-	1.00	-



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