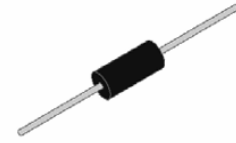


PXXXLCL Series TSS

DeLCription

PXXXLCL series thyristors are a type of semiconductor component. They are designed in applications, such as modems, telephones, line cards, answering machines, FAX machines, SLICs, T1/E1, xDSL, PBXs and more.



Features

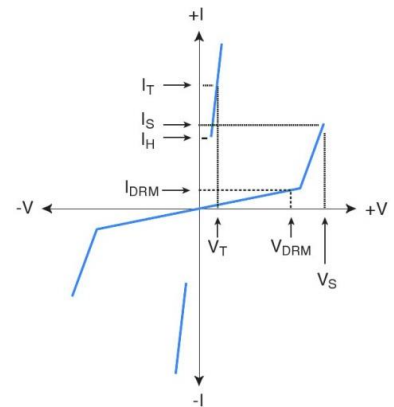
- Case: DO-15
- Excellent capability of absorbing transient surge
- Quick response to surge voltage (ns Level)
- Eliminates overvoltage caused by fast rising transients
- Moisture sensitivity level: Level 1
- Fails short circuit when surged in excess of ratings
- Non degenerative
- IEC61000-4-2 (ESD) ±30kV (air), ±30kV (contact).

Functional Diagram



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
I_{PP}	Peak Pulse Current – maximum rated peak impulse current



Thermal Considerations

Parameter	Symbol	Value	Unit
Operating Temperature	T_J	-40 to +125	°C
Storage Temperature	T_{STG}	-60 to +150	°C
Junction to free air thermal resistance	$R_{\theta JA}$	120	°C/W

Characteristics (T = 25°C unless otherwise noted)

Part Number	$I_{DRM}@V_{DRM}$		$V_S@I_S$		$V_T@I_T$		I_H	C_o°
	μA	V	V	mA	V	A		
	MAX.		MAX.	MAX.	MAX.	MAX.		
P0080LCL	1	6	15	800	4	2.2	30	60
P0220LCL	1	18	30	800	4	2.2	30	120
P0300LCL	1	25	40	800	4	2.2	30	60
P0640LCL	1	58	77	800	4	2.2	120	60
P0720LCL	1	65	87	800	4	2.2	120	60
P0900LCL	1	75	98	800	4	2.2	120	60
P1100LCL	1	90	130	800	4	2.2	120	50
P1300LCL	1	120	160	800	4	2.2	120	50

P1500LCL	1	140	180	800	4	2.2	120	50
P1800LCL	1	170	220	800	4	2.2	120	50
P2300LCL	1	190	260	800	4	2.2	120	45
P2600LCL	1	220	300	800	4	2.2	120	45
P3100LCL	1	275	350	800	4	2.2	120	40
P3500LCL	1	320	400	800	4	2.2	120	40
P3800LCL	1	340	450	800	4	2.2	120	40

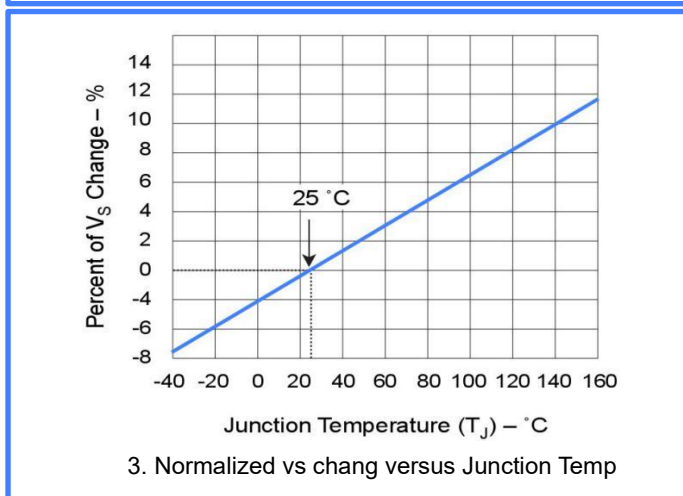
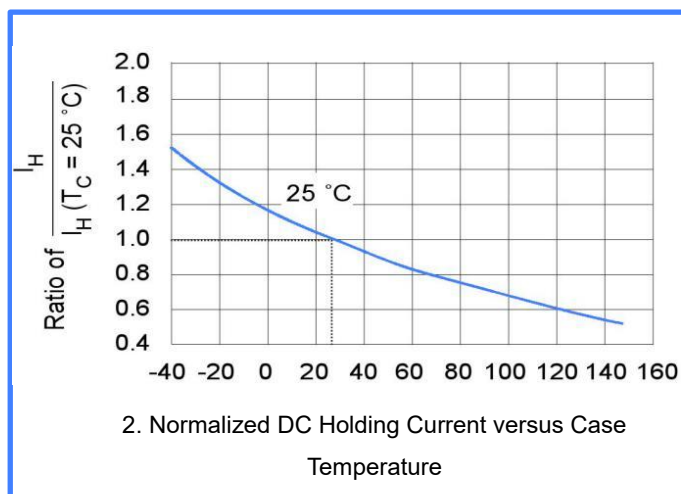
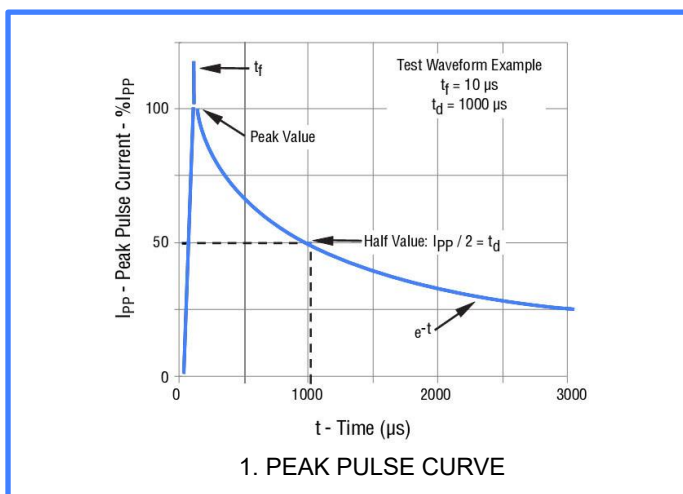
①Vs is measured at 100KV/s

②Off-state capacitance is measured in VDC=2V, VRMS=1V, f=1MHz

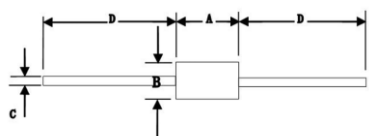
Surge Ratings

Ipp	Ipp	Ipp	Ipp	Ipp	ITSM	Di/Dt
2/10μS	8/20μS	10/160μS	10/560μS	10/1000μS	60HZ	Amps /μS
Amps	Amps	Amps	Amps	Amps	Amps	
500	400	200	150	100	50	500

Rating & Characteristic Curves



Package outline dimensions in millimeters



DO-15

DIM	Millimeters	
	Min.	Max.
A	5.80	7.62
B	2.60	3.60
C	0.70	0.90
D	25.40	-

DiLClaimer

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.