

Maximum Ratings @T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Impulse Current @10/1000us	I _{pp}	100	A
Non-Repetitive Peak On-State Current @8.3ms (one-half cycle)	I _{TSM}	50	A
Typical Positive Temperature Coefficient for Breakdown Voltage	ΔVBR/ΔT _J	0.1	%/°C

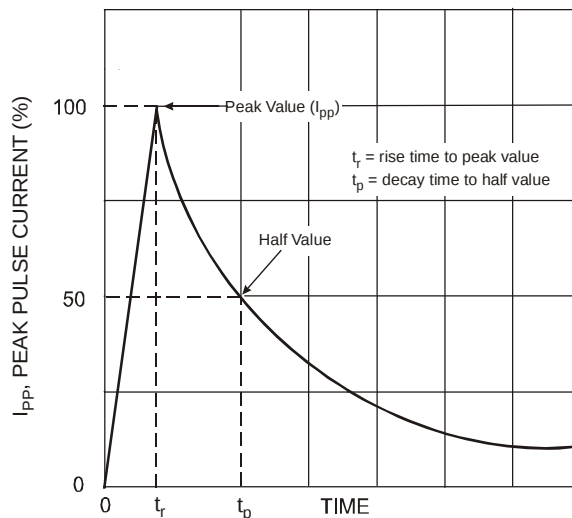
Thermal Characteristics

Characteristic	Symbol	Value	Unit
Thermal Resistance, Junction to Lead	R _{θJL}	20	°C/W
Thermal Resistance, Junction to Ambient	R _{θJA}	100	°C/W
Junction Temperature Range	T _J	-40 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

Maximum Rated Surge Waveform

Waveform	Standard	I _{pp} (A)
2/10μs	GR-1089-CORE	500
8/20μs	IEC 61000-4-5	400
10/160μs	FCC Part 68	250
10/700μs (Note 4)	ITU-T, K.20/K.21	200
10/560μs	FCC Part 68	160
10/1000μs	GR-1089-CORE	100

Notes: 4. Applied 6kV, 10/700μs waveform

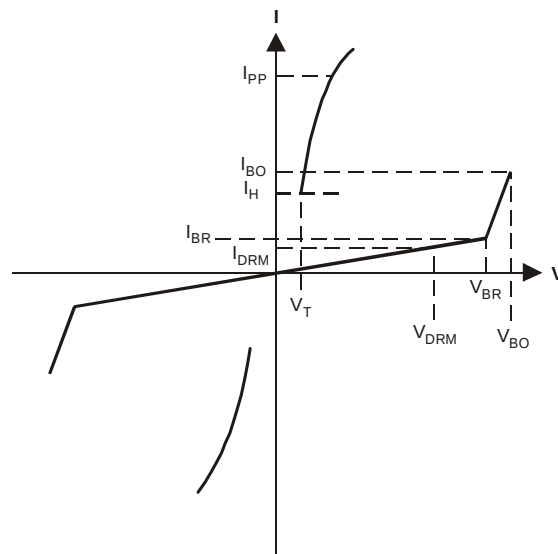


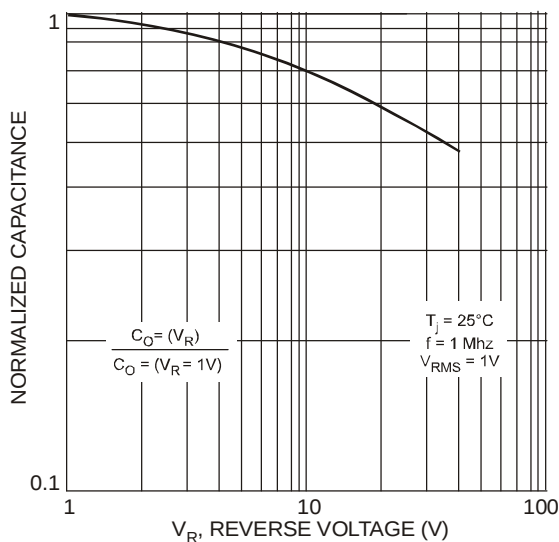
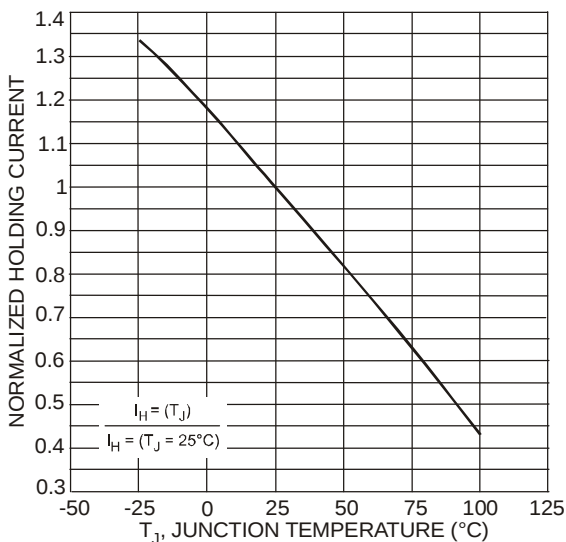
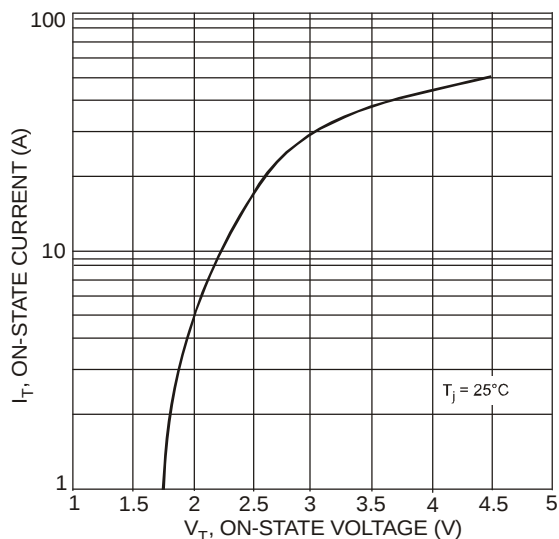
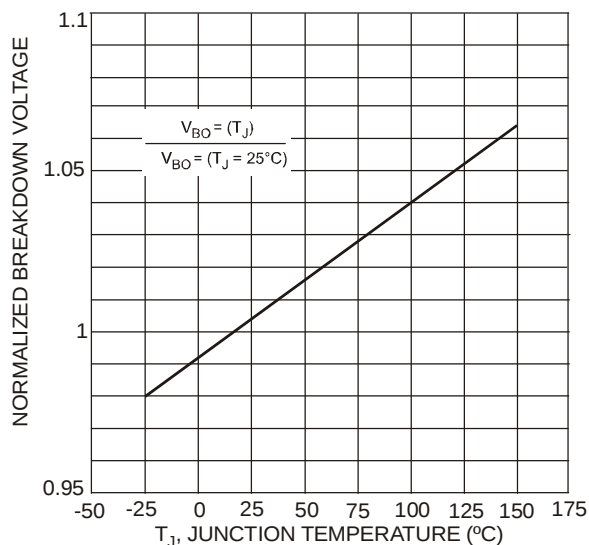
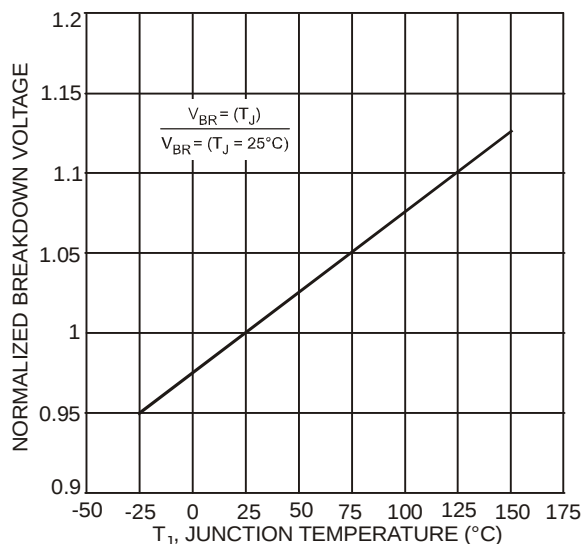
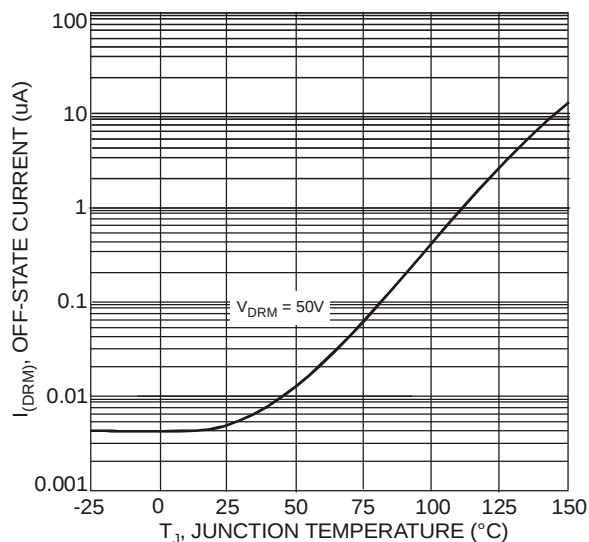
Electrical Characteristics @T_A = 25°C unless otherwise specified

Part Number	Maximum Rated Repetitive Off-State Voltage	Maximum Off-State Leakage Current @ V _{DRM}	Maximum Breakover Voltage	Maximum On-State Voltage @ I _T = 1A	Breakover Current I _{BO}		Holding Current I _H		Typical Off-State Capacitance	Marking Code
	V _{DRM} (V)	I _{DRM} (uA)	V _{BO} (V)	V _T (V)	Min (mA)	Max (mA)	Min (mA)	Max (mA)	C _O (pF)	
TB0640H	58	5	77	3.5	50	800	150	800	200	T064H
TB0720H	65	5	88	3.5	50	800	150	800	200	T072H
TB0900H	75	5	98	3.5	50	800	150	800	200	T090H
TB1100H	90	5	130	3.5	50	800	150	800	120	T110H
TB1300H	120	5	160	3.5	50	800	150	800	120	T130H
TB1500H	140	5	180	3.5	50	800	150	800	120	T150H
TB1800H	160	5	220	3.5	50	800	150	800	120	T180H
TB2300H	190	5	265	3.5	50	800	150	800	80	T230H
TB2600H	220	5	300	3.5	50	800	150	800	80	T260H
TB3100H	275	5	350	3.5	50	800	150	800	80	T310H
TB3500H	320	5	400	3.5	50	800	150	800	80	T350H

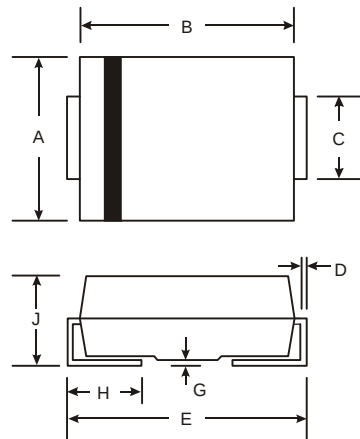
Symbol	Parameter
V _{DRM}	Stand-off Voltage
I _{DRM}	Leakage current at stand-off voltage
V _{BR}	Breakdown voltage
I _{BR}	Breakdown current
V _{BO}	Breakover voltage
I _{BO}	Breakover current
I _H	Holding current (Note 5)
V _T	On state voltage
I _{PP}	Peak pulse current
C _O	Off-state capacitance (Note 6)

- Notes:
5. I_H > (V_L/R_L) If this criterion is not obeyed, the TSPD triggers but does not return correctly to high-resistance state. The surge recovery time does not exceed 30ms.
 6. Off-state capacitance measured at f = 1.0MHz, 1.0V_{RMS} signal, V_R = 2V_{DC} bias.



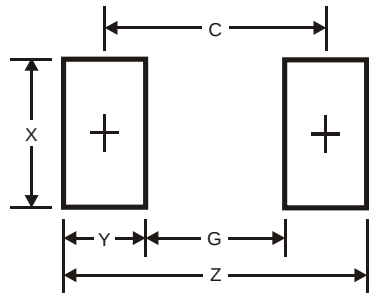


Package Outline Dimensions



SMB		
Dim	Min	Max
A	3.30	3.94
B	4.06	4.57
C	1.96	2.21
D	0.15	0.31
E	5.00	5.59
G	0.05	0.20
H	0.76	1.52
J	2.00	2.50
All Dimensions in mm		

Suggested Pad Layout



Dimensions	Value (in mm)
Z	6.8
G	1.8
X	2.3
Y	2.5
C	4.3

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