

Symbol	Parameter		Value	Unit
V _{RRM}	Peak Repetitive Reverse Voltage		650	V
E _{AS}	Single Pulse Avalanche Energy (Note 1)		49	mJ
Ι _F	Continuous Rectified Forward Current @ $T_C < 25^{\circ}C$		27	A
	Continuous Rectified Forward Current @ T _C < 146°C		10	
I _{F, Max}	Non-Repetitive Peak Forward Surge Current	T _C = 25°C, 10 μs	650	А
		T _C = 150°C, 10 μs	570	А
I _{F,SM}	Non-Repetitive Forward Surge Current $T_C = 25^{\circ}C$	Half-Sine Pulse, t _p = 8.3 ms	45	A
Ptot	Power Dissipation	$T_{C} = 25^{\circ}C$	79	W
		T _C = 150°C	13	W
T _J , T _{STG}	Operating and Storage Temperature Range		-55 to +175	°C

ABSOLUTE MAXIMUM RATINGS (T_C = 25° C unless otherwise noted)

TEST CIRCUIT AND WAVEFORMS

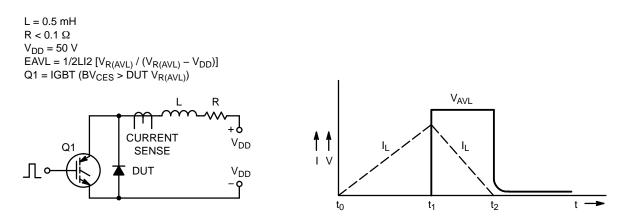
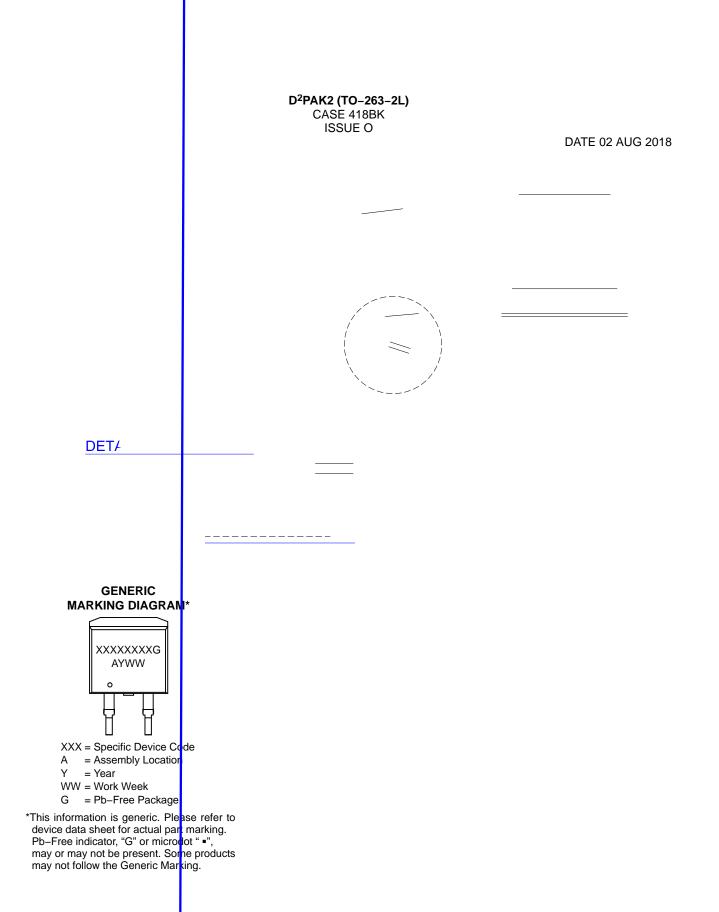


Figure 9. Unclamped Inductive Switching Test Circuit & Waveform



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