

HY1904D/U/V

Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
Common Ratings			
Mounted on Large Heat Sink			
θ			
θ			

Electrical Characteristics (Cont.)

Symbol	Parameter	Test Conditions	HY1904			Unit
			Min	Typ.	Max	
Dynamic Characteristics						
						Ω
Gate Charge Characteristics						

Typical Operating Characteristics

Figure 1: Power Dissipation

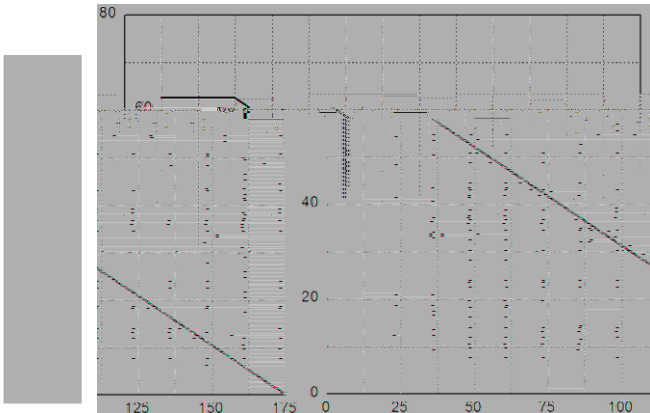


Figure 2: Drain Current

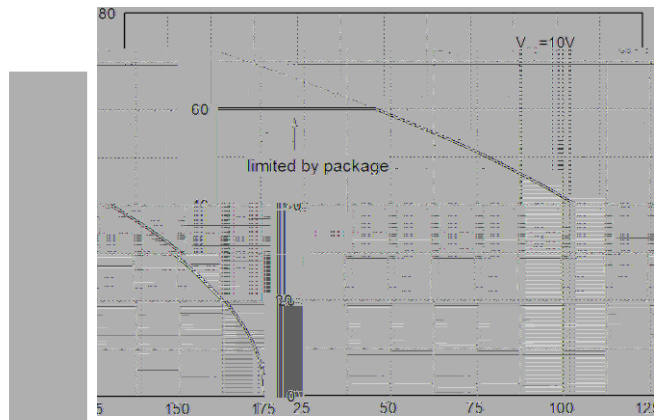


Figure 3: Safe Operation Area

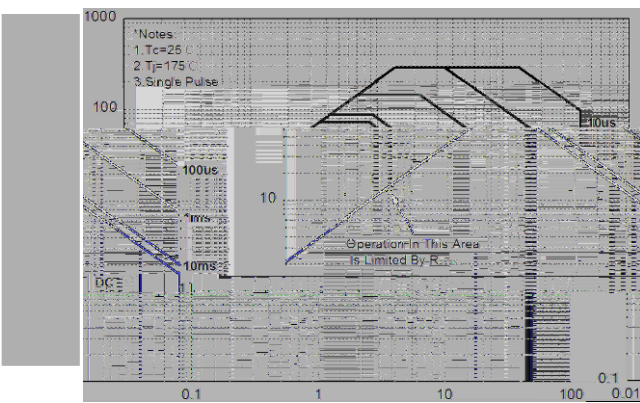


Figure 4: Thermal Transient Impedance

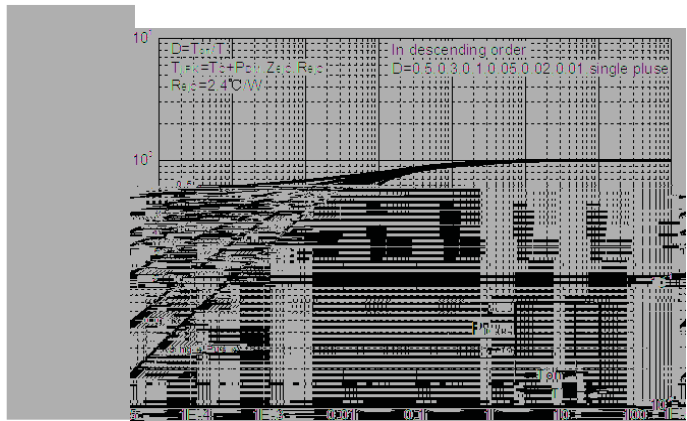


Figure 5: Output Characteristics

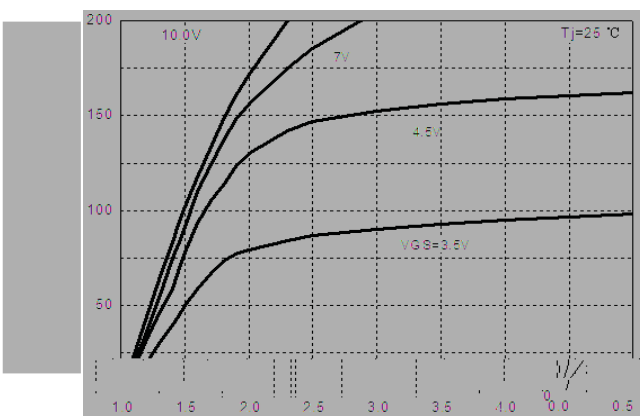
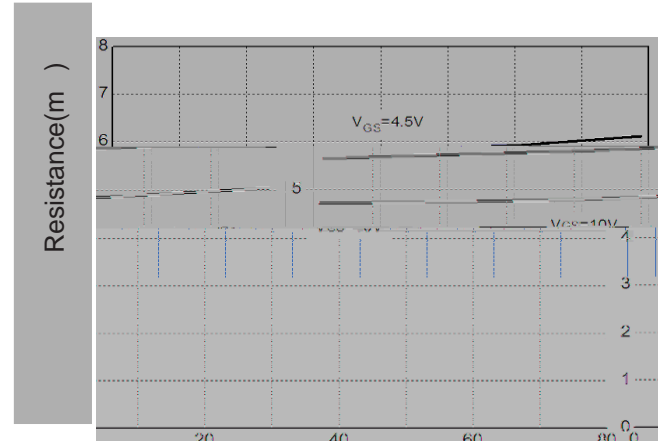


Figure 6: Drain-Source On Resistance



HY1904D/U/V

Typical Operating Characteristics(Cont.)

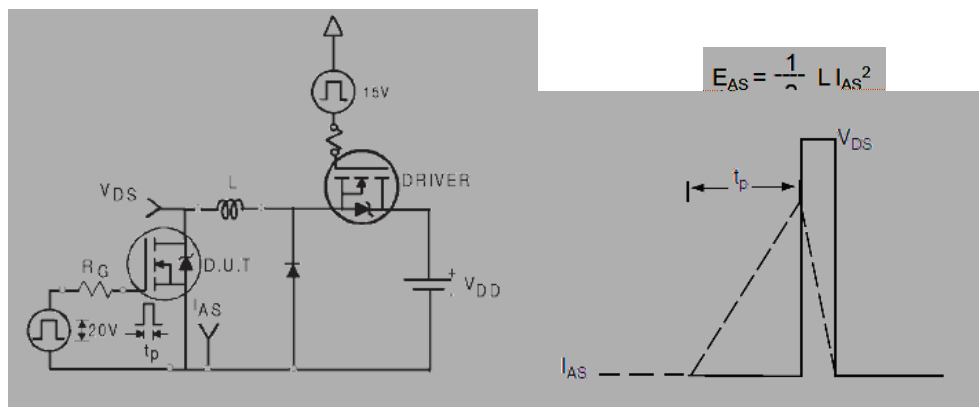
Figure 7: On-Resistance vs. Temperature

Figure 8: Source-Drain Diode Forward

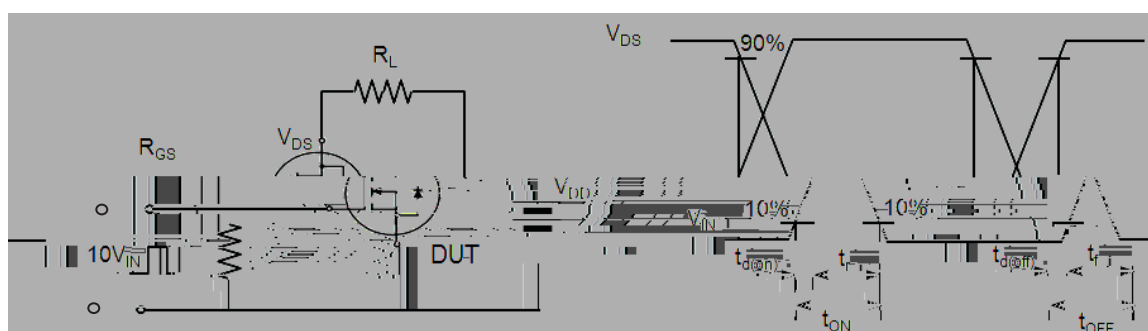
Figure 9: Capacitance Characteristics

Figure 10: Gate Charge Characteristics

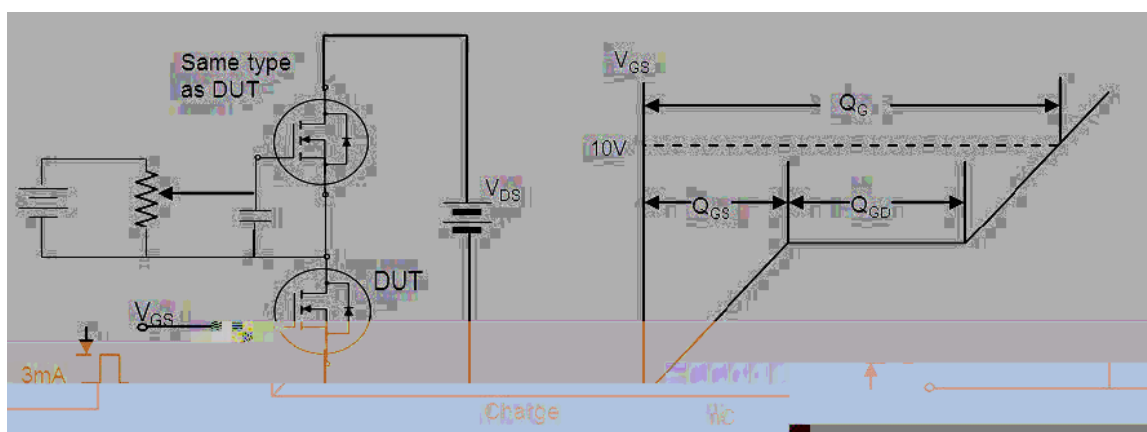
Avalanche Test Circuit



Switching Time Test Circuit



Gate Charge Test Circuit

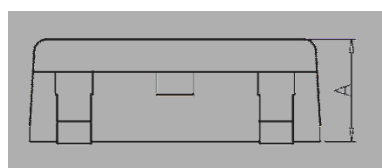
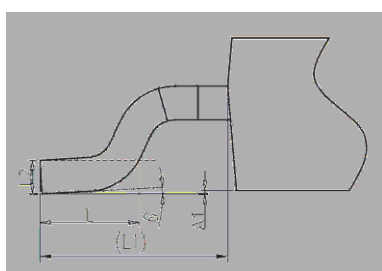
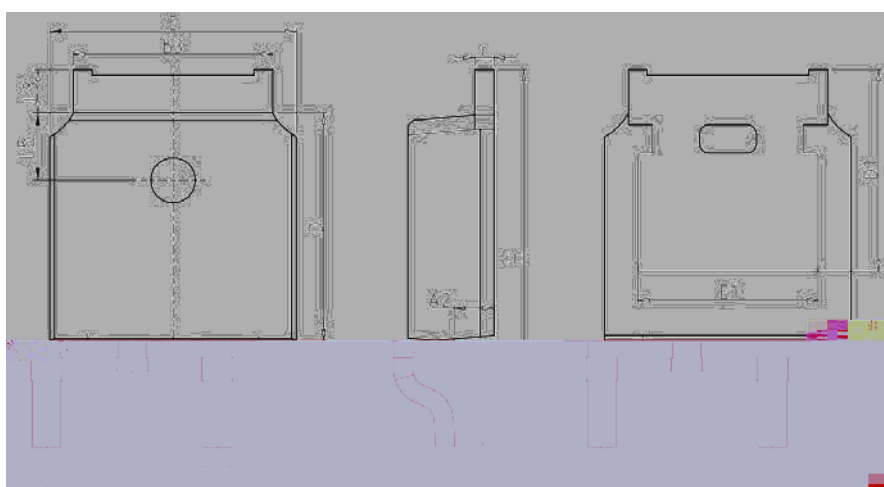


Device Per Unit

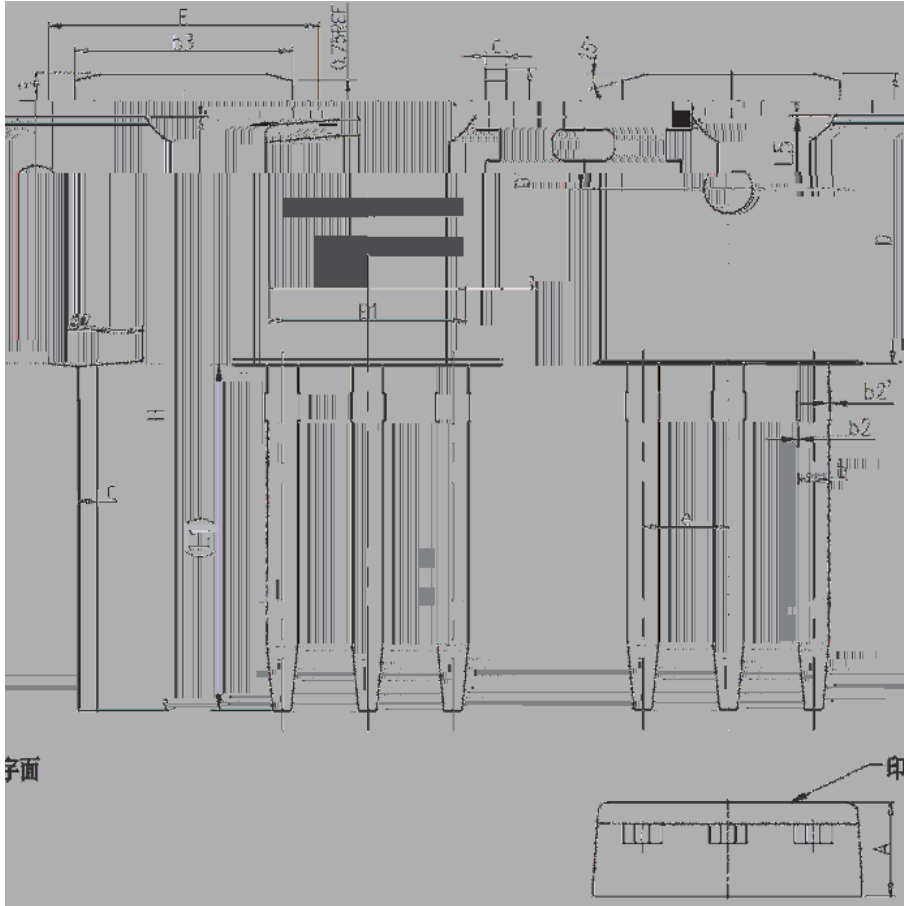
Package Type	Unit	Quantity
TO-252-2L	Tube	75
TO-252-2L	Reel	2500
TO-251-3L	Tube	75
TO-251-3S	Tube	75

Package Information

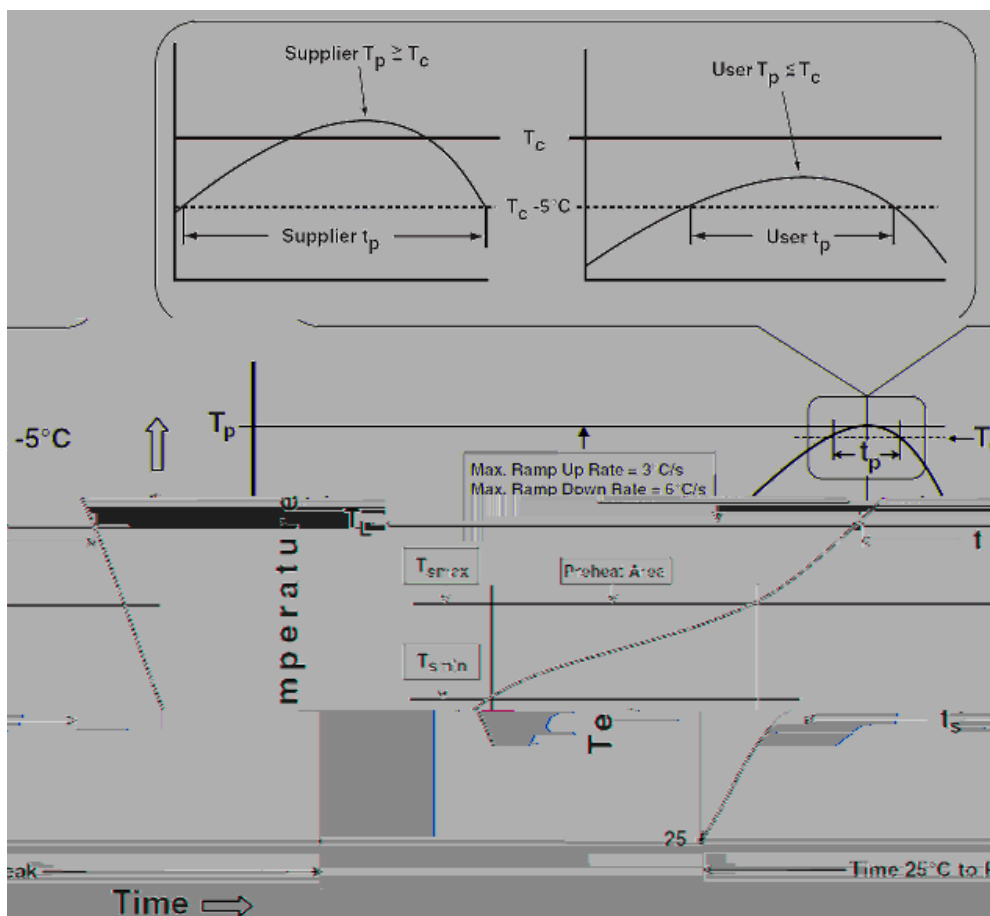
TO-252-2L



TO-251-3L



Classification Profile



Classification Reflow Profiles

Profile Feature	Sn-Pb Eutectic Assembly	Pb-Free Assembly
Preheat & Soak		

4D/U/V

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Package Thickness	Volume mm <350	Volume mm 350
2.5 mm		

-

Package Thickness	Volume mm <350	Volume mm 350-2000	Volume mm 2000
-			

ty Test Program

Test item	Method	Description