



**Thermal resistance**

Parameter	Symbol	Min.	Typ.	Max.	Unit
Thermal resistance, junction - case	$R_{thJC}$	-	-	1.5	$^{\circ}C/W$
Thermal resistance, junction - ambient	$R_{thJA}$	-	-	50	$^{\circ}C/W$
Soldering temperature, wavesoldering for 10s	$T_{sold}$	-	-	265	$^{\circ}C$

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Drain-Source Breakdown Voltage	$BV_{DSS}$	$V_{GS} = 0V, I_D = 250\mu A$	150			V
Gate Threshold Voltage	$V_{GS(TH)}$	$V_{GS} = V_{DS}, I_D = 250\mu A$	1.3		2.5	V
Drain-Source Leakage Current	$I_{DSS}$	$V_{DS} = 150V, V_{GS} = 0V$			1.0	$\mu A$
Gate- Source Leakage Current	$I_{GSS}$	$V_{GS} = \pm 20V, V_{DS} = 0V$			100	nA
Static Drain-source On Resistance		$V_{GS} = 10V, I_D = 20A$				
		$V_{GS} = 10V, I_D = 15A$				
Source-drain voltage	$V_{SD}$	$I_S = 20A$				

**Parameter                      Symbol                      Condition                      Min.                      Typ**





Fig.5 Threshold Voltage V.S Junction Temperature

Fig.6 Resistance V.S Drain Current

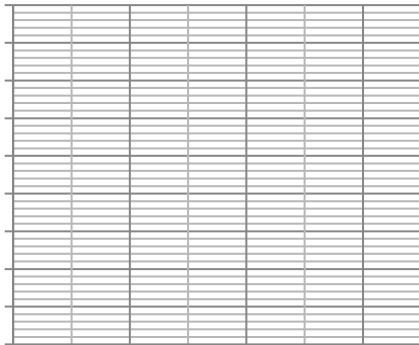
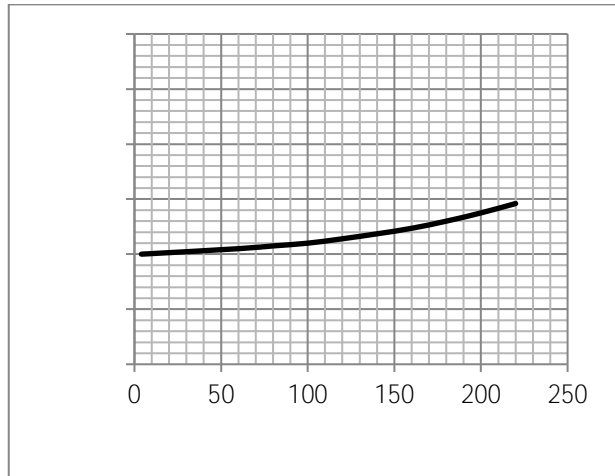
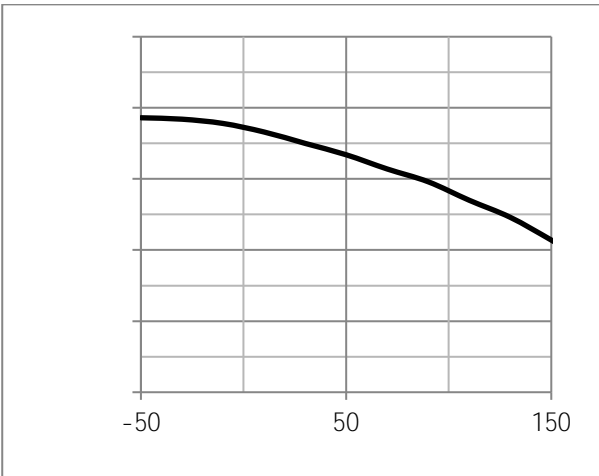


Fig.7 Switching Time Measurement Circuit

Fig.8 Gate Charge Waveform



Fig.9 Switching Time Measurement Circuit

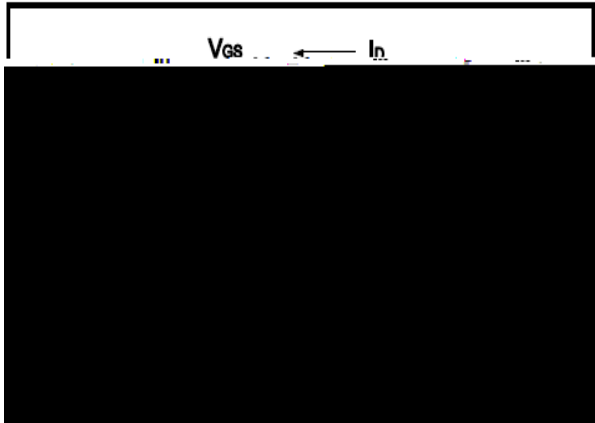


Fig.10 Gate Charge Waveform

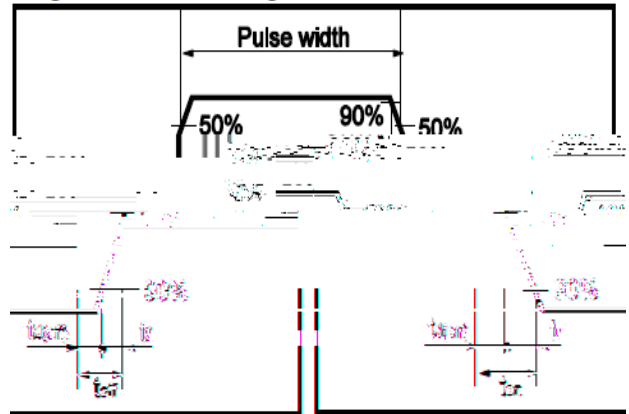


Fig.11 Avalanche Measurement Circuit

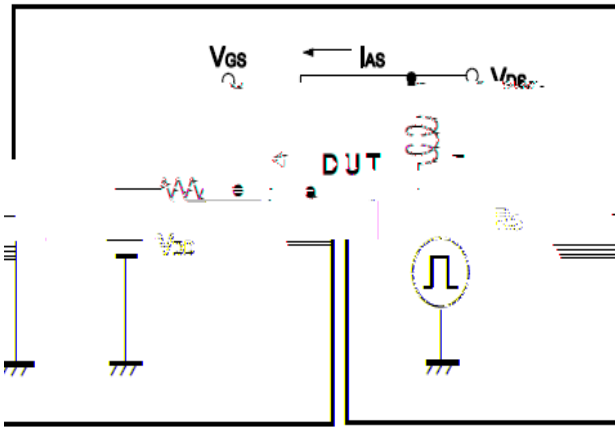
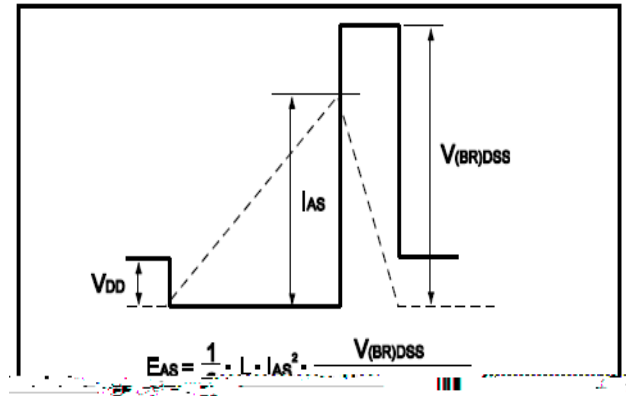


Fig.12 Avalanche Waveform





(TO-220)

Unit mm

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					1 .		1 .

