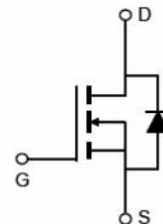


**Main Product Characteristics:**

D	60
D ( )	7 ( .)
I <sub>D</sub>	72A



TO-220



Schematic Diagram

**Features and Benefits:**

A FE

F  
150



**Description:**

I

**Absolute Max Rating:**

Symbol	Parameter	Max.	Units
I <sub>D</sub> @ c = 25 C	C D C , G @ 10	72	A
I <sub>D</sub> @ c = 100 C	C D C , G @ 10	47	
I <sub>D</sub>	D C	288	
D @ c = 25 C	D	103	
D	D -	60	
G	G - -	20	
J G	J	-55 +150	C

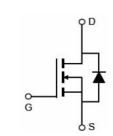
**Thermal Resistance**

Symbol	Characteristics	Typ.	Max.	Units
J <sub>C</sub>	J - -		1.45	/

**Electrical Characteristics @  $T_A=25$** 

Symbol	Parameter	Min.	Typ.	Max.	Units	Conditions
$I_{D(B)}$	D - -	60				$V_G = 0, I_D = 250 \text{ A}$
$I_{D( )}$	D - - -		7	9.1		$V_G = 10, I_D = 20 \text{ A}$
			8.2	11		$V_G = 4.5, I_D = 20 \text{ A}$
$I_{G( )}$	G	1		2.5		$V_D = V_G, I_D = 250 \text{ A}$
$I_{D( )}$	D - -			1	A	$T_A = 25 \text{ C}, V_G = 0$
$I_{G( )}$	G - -			100	A	$V_D = 20, I_D = 0$
				-100		$V_D = -20, I_D = 0$
			80		C	$T_A = 25 \text{ C}, V_G = 10, V_D = 30, I_D = 20 \text{ A}$
	G - -		9.5			
	G - -D (" ")		21			
$I_{( )}$	-		14.5		F	$V_G = 10, V_D = 30, V_G = 6, L = 1.5$
			21			
$I_{( )}$	-		100			
	F		31			
C	I		3810		F	$V_G = 0, V_D = 30, L = 1 \text{ H}$
C			200			
C			180			

**Source-Drain Ratings and Characteristics**

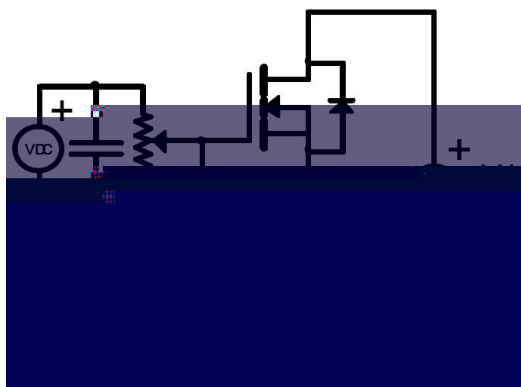
Symbol	Parameter	Min.	Typ.	Max.	Units	Conditions
$I_{( )}$	C (B D )			72	A	FE 
$I_{( )}$	C (B D )			288	A	
$I_{D( )}$	D F			1.2		$I_D = 20 \text{ A}, V_G = 0$

### Test Circuits and Waveforms

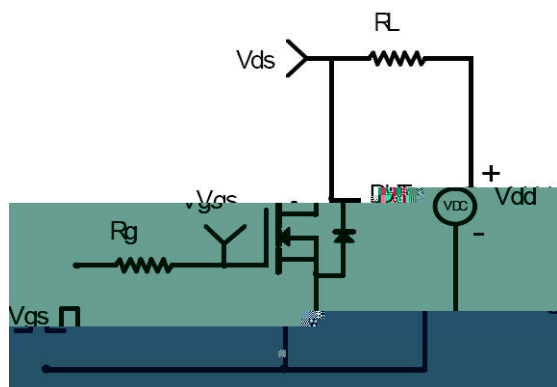
EAS Test Circuit:



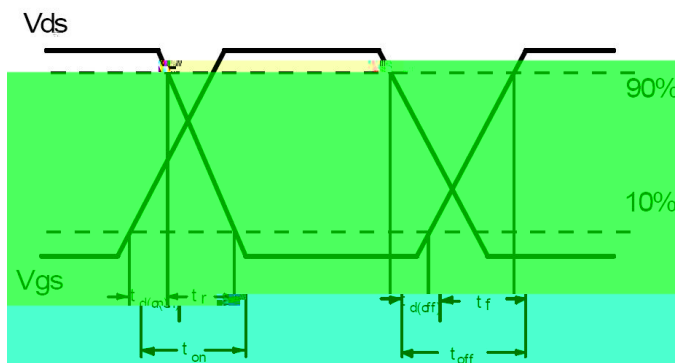
Gate Charge Test Circuit:



Switching Time Test Circuit:



Switching Waveforms:



**Notes:**

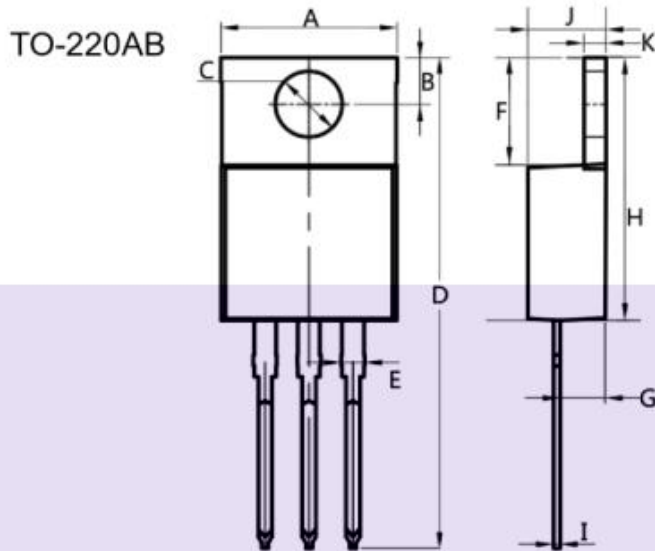
C

;

D

Mechanical Data

Unit:mm



Dim.	Min.	Max.
A	10.0	10.4
B	2.5	3.0
C	3.5	4.0
D	28.0	30.0
E	1.1	1.5
F	6.2	6.6
G	2.9	3.3
H	15.0	16.0
I	0.35	0.45
J	4.3	4.7
K	1.2	1.4
All Dimensions in millimeter		

**ATTENTION:**

A

C

I

I

A