

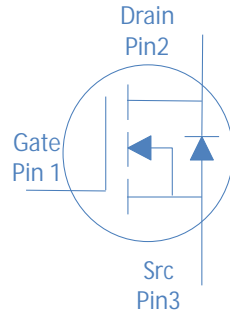
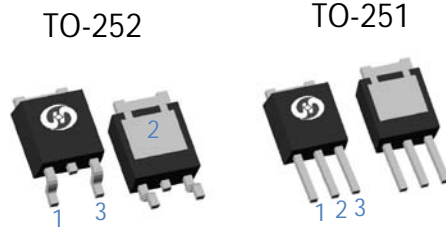
Feature

- High Speed Power Switching, Logic Level
- Enhanced Body diode dv/dt capability
- Enhanced Avalanche Ruggedness
- 100% UIS Tested, 100% Rg Tested
- Lead Free, Halogen Free

8Gfcb!zmd			
8Gfcb!zmd			
8 fG]]Vcb @a]YXt			
8 fDUWU[Y @a]YXt			

Application

- Synchronous Rectification in SMPS
- Hard Switching and High Speed Circuit
- DC/DC in Telecoms and Industrial



DUfhBi a VYf	DUWU[Y	A Uf_]b[

1&) 'fl b'Ygg'ch.Yfk]gY'gdYV]YXt

DUfUa YHYf		7 cbX]hcbg	
7 cbh]bi ci g'8fU]b'7i ffYbhfG]]Vcb @a]YXt		1&)	
		1%\$\$	
7 cbh]bi ci g'8fU]b'7i ffYbhfDUWU[Y @a]YXt		1&)	
8fU]b'hc'Gci fW'J c'fU[Y			
; UHY'hc'Gci fW'J c'fU[Y			
Di 'gYX'8fU]b'7i ffYbh			
5j U'UbVWY'9bYf[n'z'G]b['Y'Di 'gY	9	1&)	
Dck Yf'8]gg]dU]cb	D	1&)	
CdYfU]b['UbX G'hc'fU[Y HYa dYfU]h fY			

DUfUa YHYf			
H'Yfa U'F Yg]h'UbWV >i bV]cb!5a V]Ybh			#K
H'Yfa U'F Yg]h'UbWV >i bV]cb!7 UgY			#K



Hi fb'cb'8Y`UmH]a Y

Xftbt

Hi fb'cZ8Y`UmH]a Y

f

: U`H]a Y

XftZt

Z

F Yj YfgY`8]cXY`7\UfUWf]ghVg

8]cXY': cfk UfX'J c`hU[Y

F Yj YfgY`F YWtj YfmH]a Y

F Yj YfgY`F YWtj Yfm7\Uf[Y

ff

ff

2A I I I

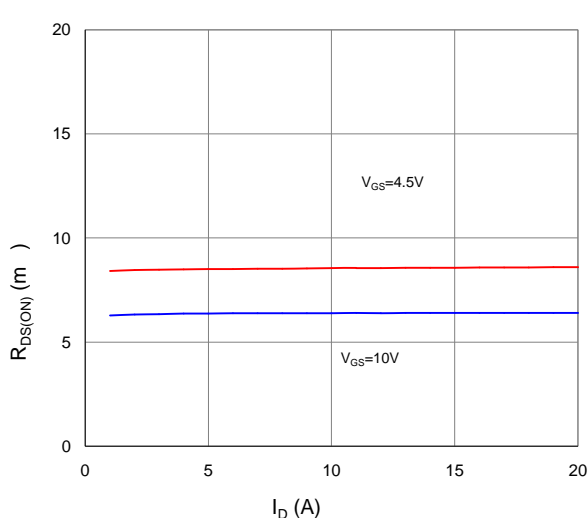
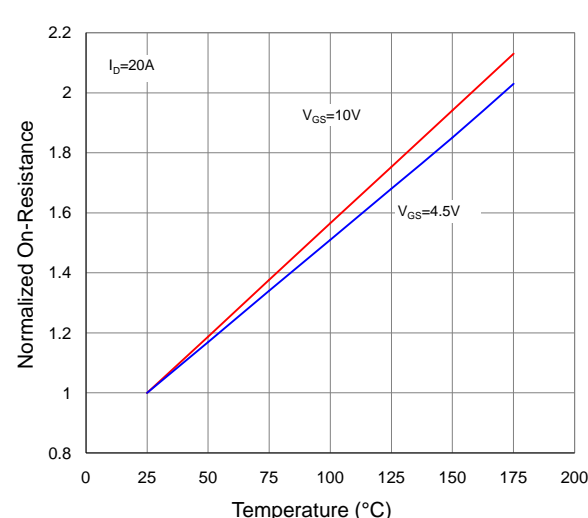
: 1&\$5žX=#t8

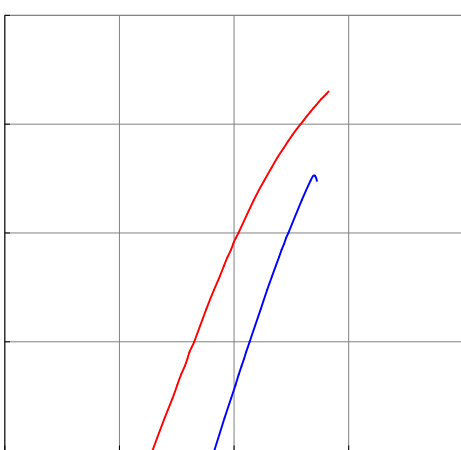
H:

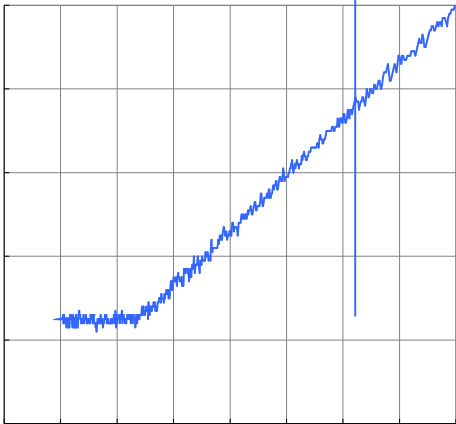
Y6fm#

m7\Uf[Y

<p>: [['%Hnd]W' Ci hdi h7 \UfUMWfjg]Vg</p>	<p>: [[i fy '&"Cb!F Yg]g]ubW' j g"; UY!Gci fW'J c'tU[Y</p>
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<p>: [[i fy ' "Cb!F Yg]g]ubW' j g" 8fU]b' 7i ffybhUbX; UY'J c'tU[Y</p>  <p>The graph shows the drain-source on-resistance $R_{DS(on)}$ in milliohms (mΩ) versus drain current I_D in Amperes (A). Two curves are plotted for gate-source voltages $V_{GS} = 4.5V$ (red line) and $V_{GS} = 10V$ (blue line). Both curves show a slight increase in resistance with current, with the $V_{GS} = 4.5V$ curve consistently higher than the $V_{GS} = 10V$ curve.</p>	<p>: [[i fy ('Bcfa U]hYX'Cb!F Yg]g]ubW' j g">i bV]cb'HYa dYfU]i fy</p>  <p>The graph shows the normalized on-resistance versus temperature in degrees Celsius ($^{\circ}C$) for a drain current $I_D = 20A$. Two curves are plotted for $V_{GS} = 10V$ (red line) and $V_{GS} = 4.5V$ (blue line). Both curves show a positive linear temperature coefficient, with the $V_{GS} = 10V$ curve having a steeper slope and higher resistance values than the $V_{GS} = 4.5V$ curve.</p>
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<p>: [[i fy) "Hnd]W' HfUbgZf' 7 \UfUMWfjg]Vg</p>	<p>: [[i fy * "Hnd]W' Gci fW! 8fU]b' 8]cXY: cfk UfX'J c'tU[Y</p>  <p>The graph shows two curves on a grid. The red curve starts at a lower value and increases more steeply than the blue curve. Both curves appear to be concave down, suggesting a non-linear relationship between the variables being plotted.</p>
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<p>:][i fY'+"Hnd]W"; UY!7\Uf[Y'j'g"; UY!hc!Gci fW'J c'tU[Y</p> 	<p>:][i fY', "Hnd]W"7 UdUV]ubW'j'g"8fU]b!hc!Gci fW'J c'tU[Y</p>
<p>:][i fY'-'A UI]a i a 'GUZ'CdYfU]b['5fYU</p>	<p>:][i fY'%"A UI]a i b'8fU]b'7i ffYbhj'g"7UgY'HYa dYfU]h fY</p>
<p>:][i fY'%"Bcfa U]hYX'A UI]a i a 'HfUbg]YbhH\Yfa U'-'a dYXUbWZ>i bV]cb!hc!5a V]Ybh</p>	

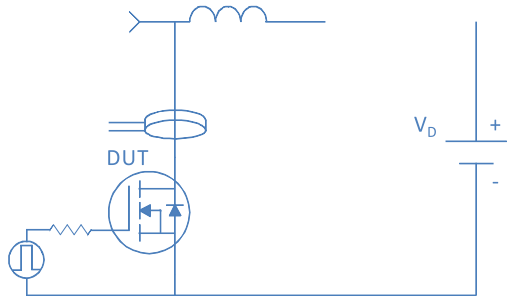
ᄁXi Vŋj Y'gk]ŋŋ]b['HYgh

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; Uŋ'7\Uf[Y'HYgh

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I WUa dYX' ᄁXi Vŋj Y'Gk]ŋŋ]b['fl -GŁHYgh

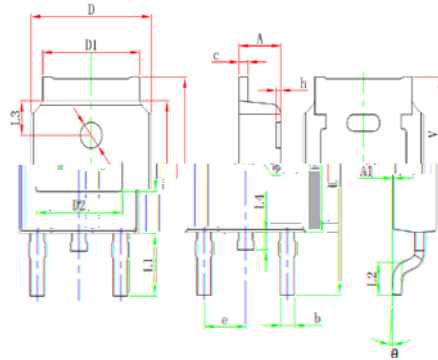
	
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8]cXY F YWŋj YfmHYgh

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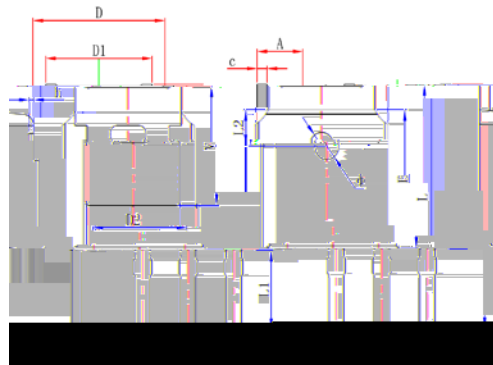
DUWU[Y C i h]bY

HC!&) &Z'`YUXg



Symbol		Dimensions In Millimeters		Dimensions In Inches	
Min.	Max.	Min.	Max.	Min.	Max.
0.087	0.094	A	2.200	2.400	
0.026	0.034	b	0.660	0.860	
0.018	0.023	c	0.460	0.580	
0.256	0.264	D	6.500	6.700	
0.201	0.215	D1	5.100	5.460	
0.190 REF.		D2	4.830 REF.		
0.236	0.244	E	6.000	6.200	
0.086	0.094	e	2.186	2.386	
0.386	0.409	L	9.800	10.400	
0.114 REF.		L1	2.900 REF.		
0.055	0.067	L2	1.400	1.700	
0.063 REF.		L3	1.600 REF.		
0.051	0.051	φ	1.100	1.300	0.0
8°	8°	θ	0°	8°	0
0.00	0.012	h	0.000	0.300	0.0
0.211 REF.		V	5.350 REF.		

HC!&) %Z'`YUXg



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.200	2.400	0.087	0.094
b	0.660	0.860	0.026	0.034
c	0.460	0.580	0.018	0.023
D	6.500	6.700	0.256	0.264
D1	5.100	5.460	0.201	0.215
D2		4.830 REF.		0.190 REF.
E	6.000	6.200	0.236	0.244
e	2.186	2.386	0.086	0.094
L	10.400	11.000	0.409	0.433
L1		3.500 REF.		0.138 REF.
L2		1.400 REF.		0.055 REF.
L3		1.600 REF.		0.063 REF.
φ	0.043	0.051	1.100	1.300
θ	8°	8°		
h		0.012 REF.		0.000 REF.
V		0.211 REF.		5.350 REF.