

iscN-Channel MOSFET Transistor

TK16A55D

RDS(• Enhand Vth = • 100% a • Minimu perform • DESCF	ain-source on-resistance: ON) = 0.33Ω (MAX) cement mode: = 2 to 4V (V _{DS} = 10 V, I _D =1.0mA) avalanche tested Im Lot-to-Lot variations for robust de nance and reliable operation	pin 1.Gate 2.Drain 3.Source TO-220F package			
	ng Voltage Regulators	B			
• ABSOL	LUTE MAXIMUM RATINGS(Ta=25° PARAMETER	VALUE	UNIT		
V _{DSS}	Drain-Source Voltage	550	v		
V _{GS}	Gate-Source Voltage	±30	v		
I _D	Drain Current-Continuous	16	A		
I _{DM}	Drain Current-Single Pulsed	64	A		
PD	Total Dissipation @T _c =25°C	50	w	DIM MIN MAX A 14.95 15.05 B 10.00 10.10	
Tj	Max. Operating Junction Temperature	150	°C	C 4.40 4.60 D 0.75 0.90	
T _{stg}	Storage Temperature	-55~150	°C	F 3.10 3.30 H 3.70 3.90 J 0.50 0.70	
• THERM	IAL CHARACTERISTICS	K 13.4 13.6 L 1.10 1.30 N 5.00 5.20			
SYMBOL	PARAMETER	МАХ	UNIT	Q 2.70 2.90 R 2.20 2.40 \$ 2.65 2.90	
Rth(ch-c)	Channel-to-case thermal resistance	2.5	°C/W	<u>5</u> 2.65 2.50 U 6.40 6.60	
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isc website: www.iscsemi.cn



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ELECTRICAL CHARACTERISTICS

$T_{\texttt{C}}\text{=}25^{\circ}\!\!\!\mathbb{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 10mA	550			V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = 10V; I _D =1.0mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =8A			330	mΩ
lgss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =550V; V _{GS} = 0V			10	μA
V _{SDF}	Diode forward voltage	I _{DR} =16A, V _{GS} = 0 V			1.7	v



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