

iscN-Channel MOSFET Transistor

2SK4115

RDS(• Enhand Vth = • 100% a • Minimu perform • DESCF • Switchi	ain-source on-resistance: ON) = 2.0 Ω (MAX) cement mode: = 2 to 4 V (V _{DS} = 10 V, I _D =1.0mA) avalanche tested Im Lot-to-Lot variations for robust de hance and reliable operation	I 2 3 0 I 2 3 0 0 I 2 3 0 0 I 2 3 0 0 I 2 3 0 0 I 2 3 0 0 I 2 3 0 0 I 2 3 0 0 I 2 3 0 0 I 2 3 0 0 I 2 3 0 0 I 3 0 0 0 I 0 0 0 0 I 0 0 0 0 I 0 0 0 0 I 0 0 0 0 I 0 0 0 0 I 0 0 0 0 I 0 0 0 0 I 0 0 0		
SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	900	V	
V_{GS}	Gate-Source Voltage	±30	v	K ↓ G → ← L
Ι _D	Drain Current-Continuous	7	A	→ ⊸ J → ⊸ D → ⊸ R → N→
I _{DM}	Drain Current-Single Pulsed	21	A	DIM MIN MAX
P _D	Total Dissipation @T _c =25°C	150	w	A 19.60 20.30 B 15.50 15.70 C 4.70 4.90 D 0.90 1.10
Tj	Max. Operating Junction Temperature	150	°C	D 0.90 1.10 E 1.90 2.10 F 3.40 3.60 G 2.90 3.20
T _{stg}	Storage Temperature	-55~150	°C	H 3.20 3.40 J 0.595 0.605 K 19.80 20.70
• THERM		L 1.90 2.20 N 10.89 10.91 Q 4.90 5.10		
SYMBOL	PARAMETER	МАХ	UNIT	R 3.35 3.45 S 1.995 2.100
Rth(ch-c)	Channel-to-case thermal resistance	0.833	°C/W	U 5.90 6.20 Y 9.90 10.10

isc website: www.iscsemi.cn

¹ isc & iscsemi is registered trademark



iscN-Channel MOSFET Transistor

2SK4115

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	800			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 =3.5A			2.0	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±10	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =720V; V _{GS} = 0V			100	μA
V _{SDF}	Diode forward voltage	I _{DR} =7A, V _{GS} = 0 V			1.7	V



NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications. ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

isc website: www.iscsemi.cn