

iscN-Channel MOSFET Transistor

2SK3564, I2SK3564

• FEATURES

• Low drain-source on-resistance: $R_{DS}(ON) = 3.7\Omega$ (typ.)

• Enhancement mode: Vth = 2.0 to 4.0V (V_{DS} = 10 V, I_D=1.0mA)

- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

· Switching Voltage Regulators

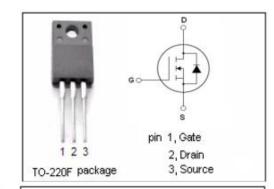


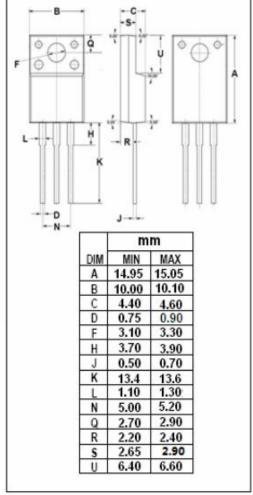
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	900	V	
V_{GS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous	3	A	
I _{DM}	Drain Current-Single Pulsed	9	А	
P_D	Total Dissipation @T _C =25℃	40	W	
Tj	Max. Operating Junction Temperature	150	$^{\circ}$	
T _{stg}	Storage Temperature	-55~150	°C	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	3.125	°C/W
Rth(ch-a)	th(ch-a) Channel-to-ambient thermal resistance		°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 10mA	900			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =1.0mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =1.5A		3700	4300	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±10	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =720V; V _{GS} = 0V			100	μА
V _{SDF}	Diode forward voltage	I _{DR} =3A, V _{GS} = 0 V			1.9	V

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isc website: www.iscsemi.cn

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