&G?')(%A'H)

N-Channel MOSFET

FEATURES

- Low on-resistance
- Fast switching speed
- Low voltage drive makes this device ideal for portable equipment
- Drive circuits can be simple
- Parallel use is easy

APPLICATIONS

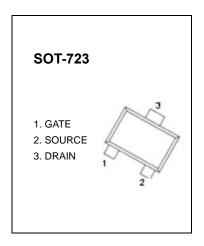
Interfacing, Switching

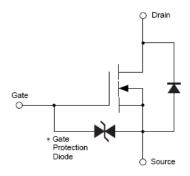
MARKING:KN



Pb-Free package is available

RoHS product for packing code suffix "G" Halogen free product for packing code suffix "H"





^{*}A protection diode is included between the gate and the source terminals to protect the diode against static electricity when the product is in use. Use a protection circuit when the fixed voltages are exceeded.

Maximum ratings (T_a=25℃ unless otherwise noted)

Parameter	Symbol	Value	Units	
Drain-source voltage	V _{DS}	30	V	
Gate-source voltage	V _{GS}	±20		
Continuous drain current	I _D	±100	mA	
Power dissipation	P _D	0.15	W	
Thermal resistance from junction to ambient	R _{0JA}	833	°C/W	
Junction temperature	TJ	150	℃	
Storage temperature	T _{stg}	-55 ~+150		

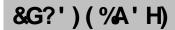
^{*} Pw≤10µs ,Duty cycle≤1%

&G?')(%A'H)

SOT-723 Plastic-Encapsulate MOSFETS

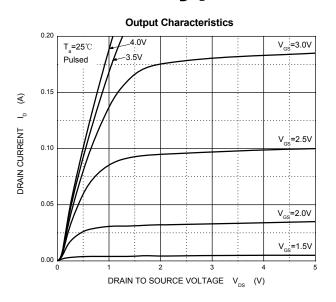
Electrical characteristics (T_a=25°C unless otherwise noted)

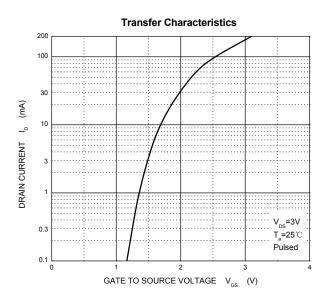
Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Drain-source breakdown voltage	V(BR) DSS	Vgs = 0V, ID =10µA	30			V
Gate-source leakage current	I _{GSS}	Vps =0V, Vgs =±20V			±1	μΑ
Zero gate voltage drain current	I _{DSS}	Vps =30V, Vgs =0V			1.0	μΑ
Gate threshold voltage	VGS(th)	V _{DS} =3V, I _D =100μA	0.8		1.5	V
Static drain-source on-state resistance	RDS(on)	Vgs =4V, Ip =10mA		5	8	Ω
		Vgs =2.5V, Ip =1mA		7	13	
Forward transconductance	g _{FS}	Vps =3V, Ip =10mA	20			mS
Input capacitance	C _{iss}			13		pF
Output capacitance	Coss	Vps =5V,Vgs =0V,f =1MHz		9		
Reverse transfer capacitance	C _{rss}			4		
Turn-on delay time	td(on)			15		
Rise time	tr	$V_{GS}=5V, V_{DD}=5V, I_D=10mA$		35		ns
Turn-off delay time	td(off)	$R_L=500\Omega, R_G=10\Omega$		80		
Fall time	t f]		80		

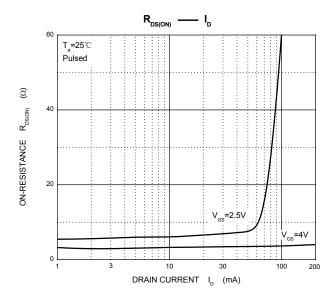


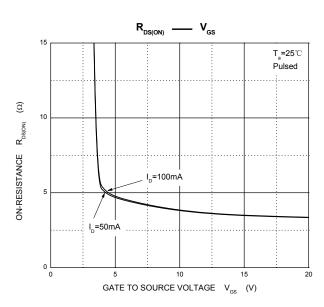


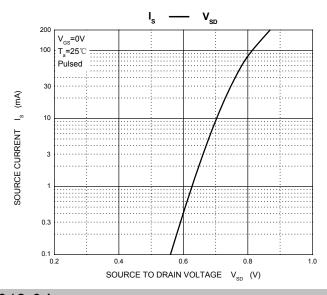
Typical Characteristics







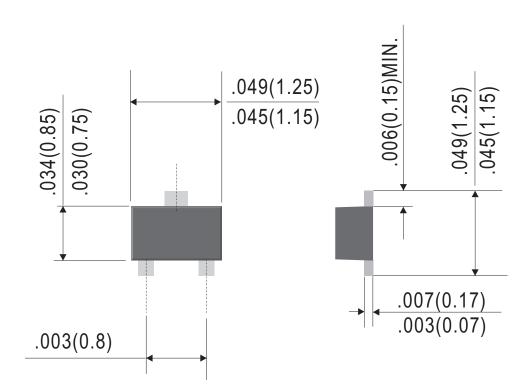


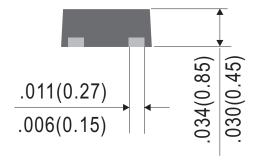




Outline Drawing

SOT-723





Dimensions in inches and (millimeters)

Ordering Information:

Device PN	Packing
2SK3541M3T5G ⁽¹⁾ -WS	Tape&Reel: 8 Kpcs/Reel

Note: (1) RoHS product for packing code suffix "G"; Halogen free product for packing code suffix "H"

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