

این دیتاشیت توسط توکل الکترونیک تهیه و ارائه شده است.
جهت مشاهده قیمت، موجودی و ثبت سفارش این قطعه به وبسایت توکل الکترونیک مراجعه فرمایید.



مشاهده قیمت و خرید

برای خرید و مشاهده سایر محصولات کلیک کنید



isc®

INCHARGE SEMICONDUCTOR

isc N-Channel MOSFET Transistor

2SK1105

DESCRIPTION

- Drain Current – $I_D=3A@T_C=25^{\circ}C$
- Drain Source Voltage-
: $V_{DSS}=800V(\text{Min})$
- Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

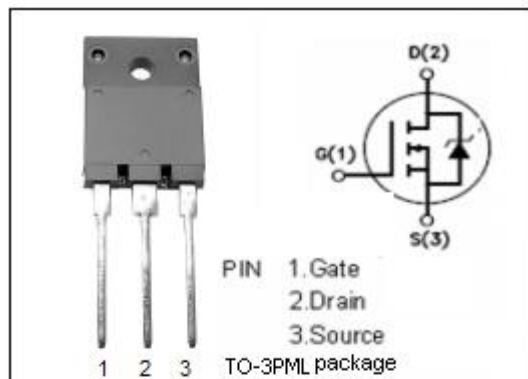
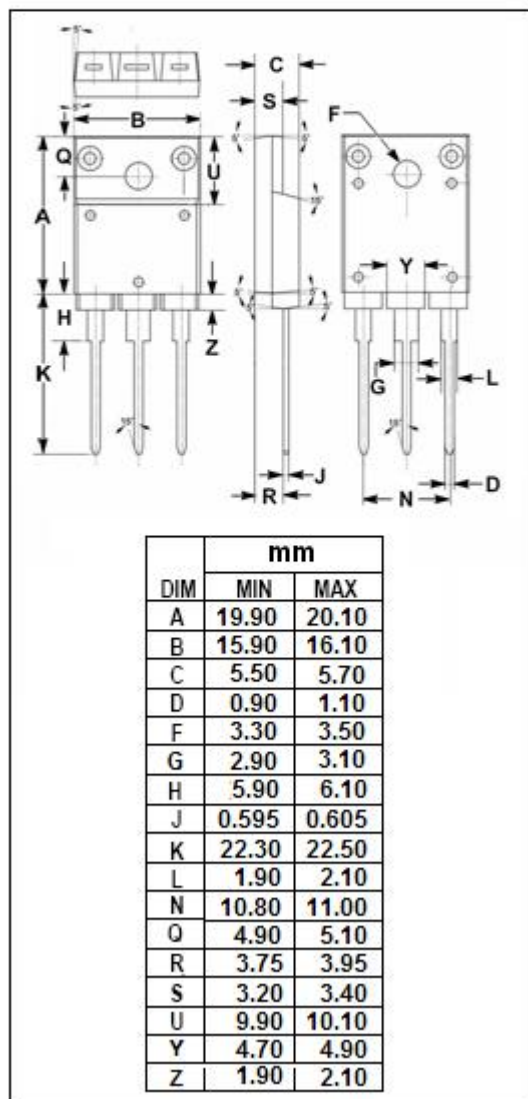
- Designed for switching regulators, UPS, DC-DC converters , general purpose power amplifier applications .

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage ($V_{GS}=0$)	800	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-continuous@ $T_C=25^{\circ}C$	3	A
I_{DM}	Drain Current-Single Pulsed	12	A
P_{tot}	Total Dissipation@ $T_C=25^{\circ}C$	80	W
T_j	Max. Operating Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.56	$^{\circ}C/W$
$R_{th\ j-a}$	Thermal Resistance, Junction to Ambient	35	$^{\circ}C/W$



isc N-Channel Mosfet Transistor**2SK1105****• ELECTRICAL CHARACTERISTICS (T_c=25°C)**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	800			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =1mA	2.1	3.0	4.0	V
R _{DS(on)}	Drain-Source On-stage Resistance	V _{GS} =10V; I _D = 1.5A		3.0	4.0	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =800V; V _{GS} = 0			500	uA
V _{SD}	Forward On-Voltage	I _S =3A; V _{GS} =0		1.0	1.35	V
G _{fs}	Forward Transconductance	V _{DS} = 25V; I _D =1.5A	2.0			S
t _r	Rise time	V _{GS} =10V; I _D =2.1A; R _L =50 Ω		40	60	ns
t _{on}	Turn-on time			20	30	ns
t _f	Fall time			60	90	ns
t _{off}	Turn-off time			150	250	ns

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