

isc N-Channel MOSFET Transistor

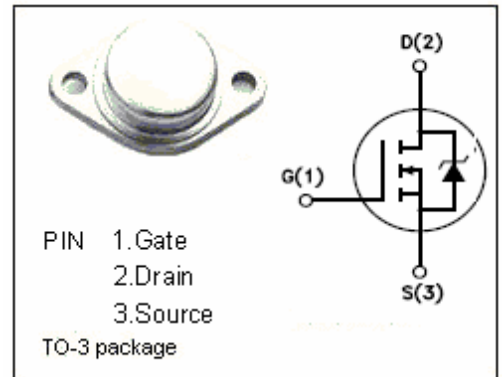
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DESCRIPTION

- silicon Gate for fast switching at elevate
- rugged

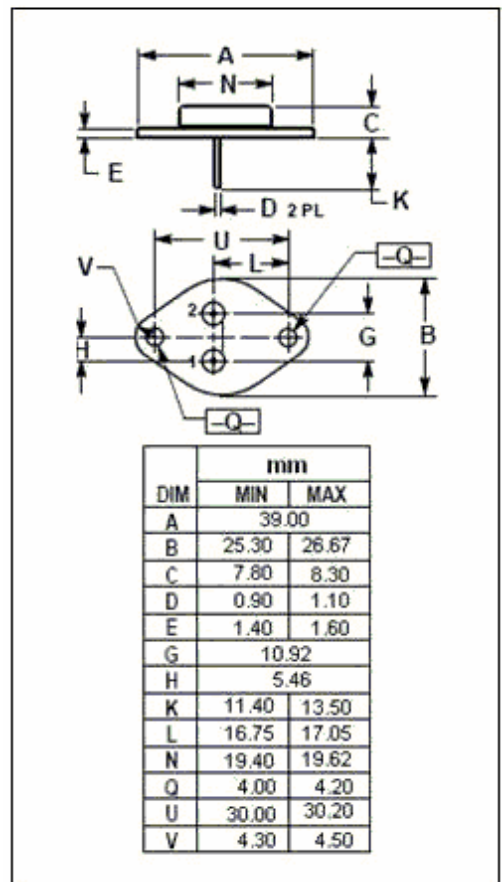
APPLICATIONS

- high voltage,high speed applications such as off-line Switching power supplies,AC and DCmotor controls relay and solenoid driver.



ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	ARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	400	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-continuous@ TC=25°C	13	A
P _{tot}	Total Dissipation@TC=25°C	150	W
T _j	Max. Operating Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	0.83	°C/W
R _{th j-a}	Thermal Resistance,Junction to Ambient	30	°C/W

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• ELECTRICAL CHARACTERISTICS ($T_C=25^\circ\text{C}$)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	$V_{GS}=0; I_D=0.25\text{mA}$	400			V
$V_{GS(TH)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}; I_D=250\mu\text{A}$	2		4	V
$R_{DS(ON)}$	Drain-Source On-stage Resistance	$V_{GS}=10\text{V}; I_D=8\text{A}$			0.4	Ω
I_{GSS}	Gate Source Leakage Current	$V_{GS}=\pm 20\text{V}; V_{DS}=0$			± 100	nA
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS}=400\text{V}; V_{GS}=0$			250	μA
V_{SD}	Diode Forward Voltage	$I_F=15\text{A}; V_{GS}=0$			1.6	V
C_{iss}	Input Capacitance	$V_{DS}=25\text{V};$ $V_{GS}=0\text{V};$ $f_T=1\text{MHz}$		2000		pF
C_{rss}	Reverse Transfer Capacitance			400		
C_{oss}	Output Capacitance			100		
t_r	Rise Time	$I_D=8\text{A};$ $V_{DD}=180\text{V};$ $R_L=4.7\Omega$			65	ns
$t_{d(on)}$	Turn-on Telay Time				35	
t_f	Fall Time				75	
$t_{d(off)}$	Turn-off Delay Time				150	