

isc N-Channel MOSFET Transistor

2SK258

DESCRIPTION

- Drain Current $-I_D=8A@ T_C=25^{\circ}C$
- Drain Source Voltage-
: $V_{DSS}= 250V(\text{Min})$
- Fast Switching Speed
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

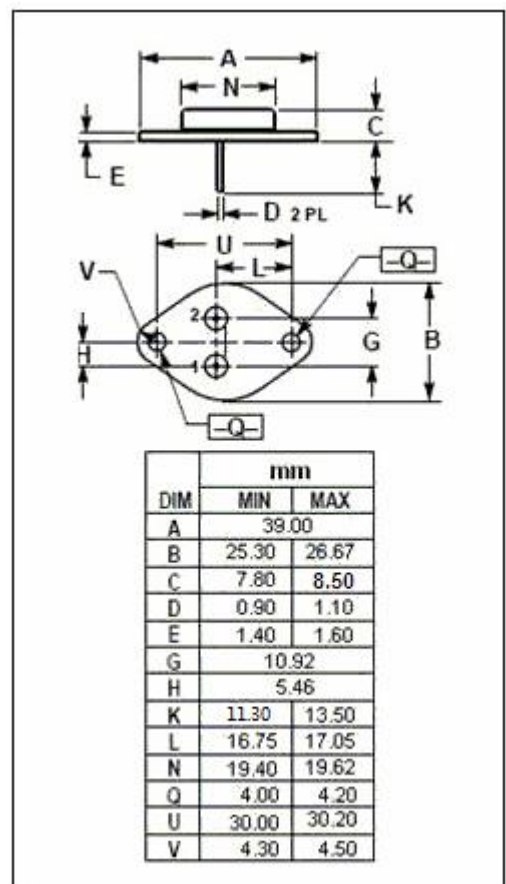
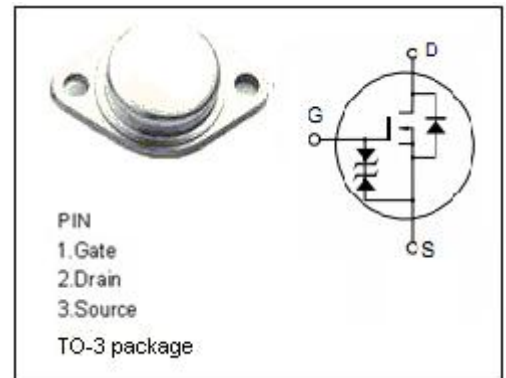
- High current , high speed switching

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage ($V_{GS}=0$)	250	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-continuous@ $T_C=25^{\circ}C$	8	A
P_{tot}	Total Dissipation@ $T_C=25^{\circ}C$	125	W
T_j	Max. Operating Junction Temperature	200	$^{\circ}C$
T_{stg}	Storage Temperature Range	-65~200	$^{\circ}C$

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	62.5	$^{\circ}C/W$



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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 10mA	250			V
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} =10 V _{GS} ; I _D =10mA	0.4		3.0	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = 15V; I _D =4A		0.80	1.12	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 200V; V _{GS} = 0			1	mA
V _{DS(ON)}	Drain-Source Saturation Voltage	I _F = 4A; V _{GS} = 15V			4.5	V

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