

## isc N-Channel MOSFET Transistor

SKI06073

## FEATURES

- Drain Current  $-I_D = 78A @ T_C = 25^\circ C$
- Drain Source Voltage-  
:  $V_{DSS} = 60V(\text{Min})$
- Static Drain-Source On-Resistance  
:  $R_{DS(on)} = 6.6m\Omega (\text{Max})$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## DESCRIPTION

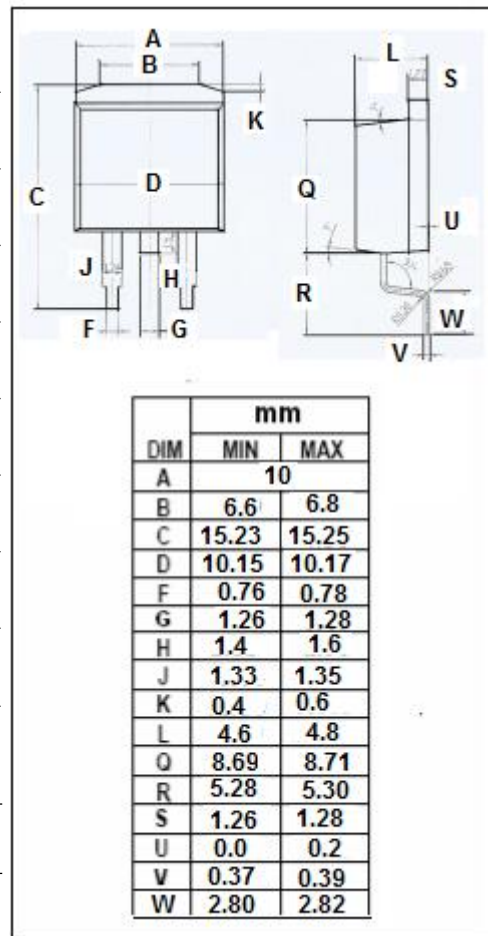
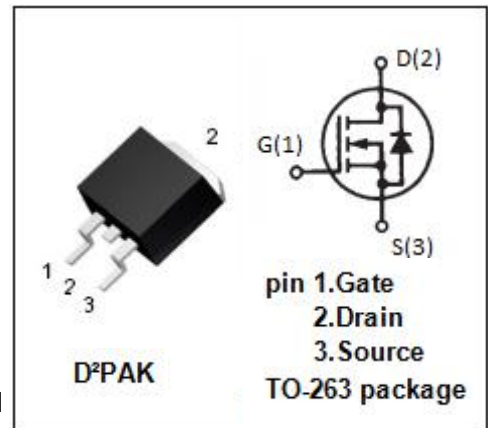
- Designed for use in switch mode power supplies and general purpose applications.

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{DSS}$	Drain-Source Voltage	60	V
$V_{GS}$	Gate-Source Voltage-Continuous	$\pm 20$	V
$I_D$	Drain Current-Continuous	78	A
$I_{DM}$	Drain Current-Single Pluse	156	A
$P_D$	Total Dissipation @ $T_C = 25^\circ C$	116	W
$T_J$	Max. Operating Junction Temperature	150	$^\circ C$
$T_{stg}$	Storage Temperature	-55~150	$^\circ C$

## THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	1.1	$^\circ C/W$



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## ELECTRICAL CHARACTERISTICS

 $T_c=25^{\circ}\text{C}$  unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	$V_{GS} = 0; I_D = 0.1\text{mA}$	60		V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS} = V_{GS}; I_D = 1\text{mA}$	1.0	2.5	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS} = 10\text{V}; I_D = 39\text{A}$		6.6	$\text{m}\Omega$
$I_{GSS}$	Gate-Body Leakage Current	$V_{GS} = \pm 20\text{V}; V_{DS} = 0$		$\pm 100$	nA
$I_{DSS}$	Zero Gate Voltage Drain Current	$V_{DS} = 60\text{V}; V_{GS} = 0$		100	$\mu\text{A}$
$V_{SD}$	Forward On-Voltage	$I_S = 39\text{A}; V_{GS} = 0$		1.5	V

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