

isc P-Channel MOSFET Transistor
2SJ598
• FEATURES

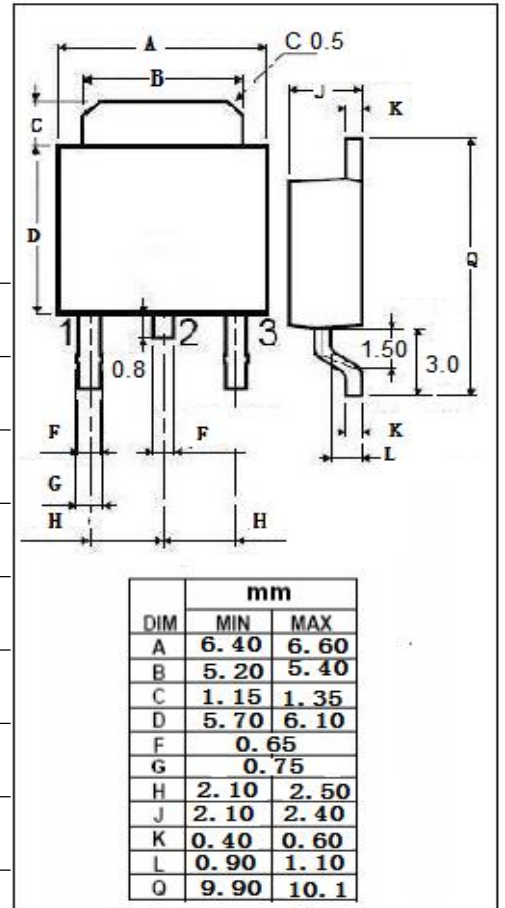
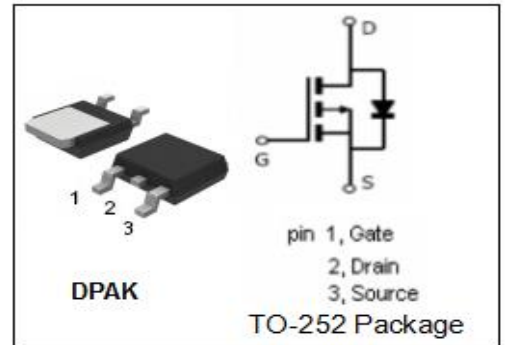
- Static drain-source on-resistance:
 $R_{DS(on)} \leq 130m\Omega$
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• DESCRIPTION

- Built in gate protection diode

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	-60	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous	± 12	A
I_{DM}	Drain Current-Single Pulsed	± 30	A
P_D	Total Dissipation @ $T_c=25^\circ C$	23	W
T_j	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$



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ELECTRICAL CHARACTERISTICS

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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	$V_{GS}=0V; I_D=1mA$	-60			V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=-10V; I_D=1mA$	-1.5		-2.5	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=-10V; I_D=-6A$			130	$m\Omega$
I_{GSS}	Gate-Source Leakage Current	$V_{GS}=\pm 16V; V_{DS}=0V$			± 10	μA
I_{DSS}	Drain-Source Leakage Current	$V_{DS}=-60V; V_{GS}=0V$			-10	μA
V_{SD}	Diode forward voltage	$I_F=12A, V_{GS}=0V$		0.98		V

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