

isc P-Channel MOSFET Transistor

2SJ389S

• FEATURES

- Static drain-source on-resistance:
 $R_{DS(on)} \leq 135m\Omega (@V_{GS} = -10V; I_D = -5A)$
- High speed switching
- Low drive current
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATIONS

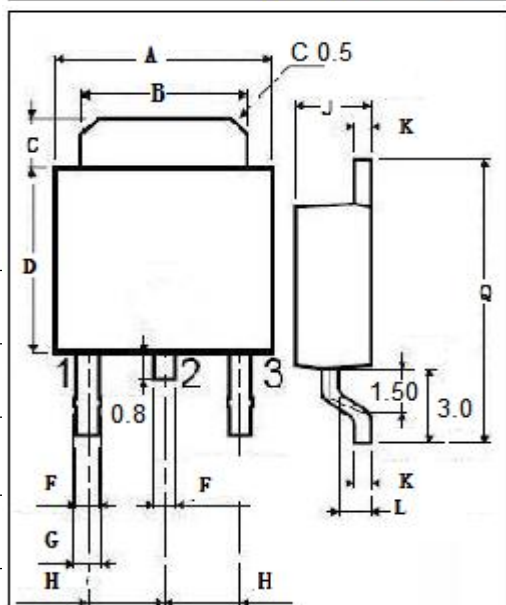
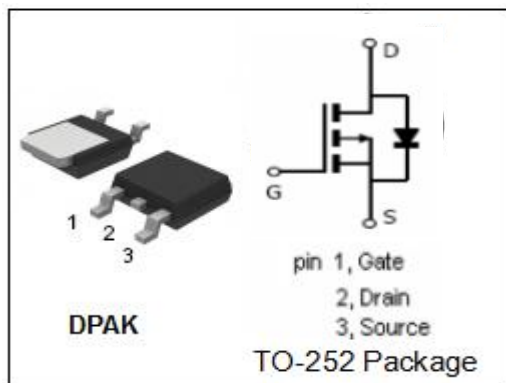
- High speed power switching

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DS}	Drain-Source Voltage	-60	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous	-10	A
P_D	Total Dissipation @ $T_c=25^\circ C$	30	W
T_j	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(j-c)}$	Channel-to-case thermal resistance	4.17	$^\circ C/W$



DIM	mm	
	MIN	MAX
A	6.40	6.60
B	5.20	5.40
C	1.15	1.35
D	5.70	6.10
F	0.65	
G	0.75	
H	2.10	2.50
J	2.10	2.40
K	0.40	0.60
L	0.90	1.10
Q	9.90	10.1

isc P-Channel MOSFET Transistor**2SJ389S****ELECTRICAL CHARACTERISTICS** $T_c=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	$V_{GS}=0V$; $I_D = -250\ \mu A$	-60			V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}$; $I_D = -250\ \mu A$	-1		-2.5	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS} = -10V$; $I_D = -5A$			135	$m\Omega$
I_{GSS}	Gate-Source Leakage Current	$V_{GS} = \pm 20V$; $V_{DS} = 0V$			± 100	nA
I_{DSS}	Drain-Source Leakage Current	$V_{DS} = -60V$; $V_{GS} = 0V$			-1	μA
V_{SD}	Diode forward voltage	$I_s = -10A$, $V_{GS} = 0V$			-1	V

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