

# isc P-Channel MOSFET Transistor

## 2SJ526

### • FEATURES

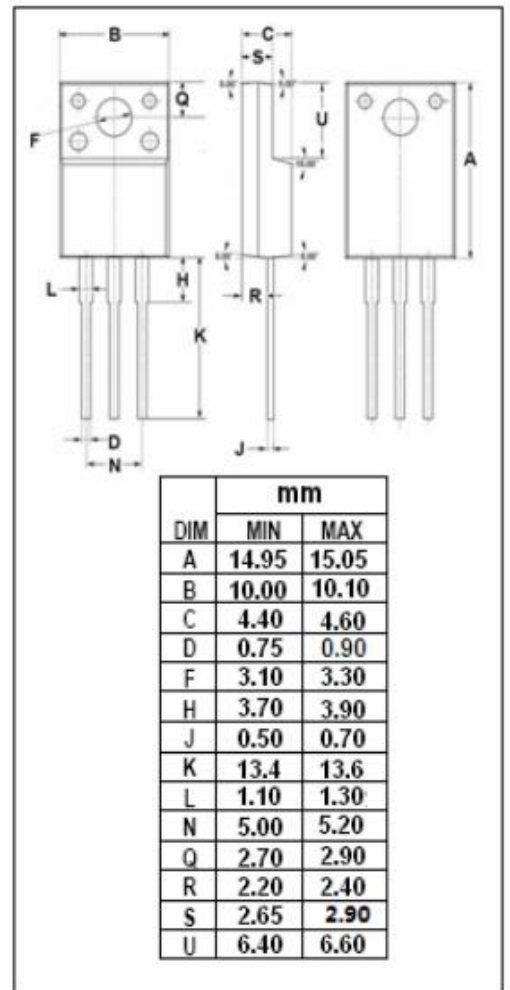
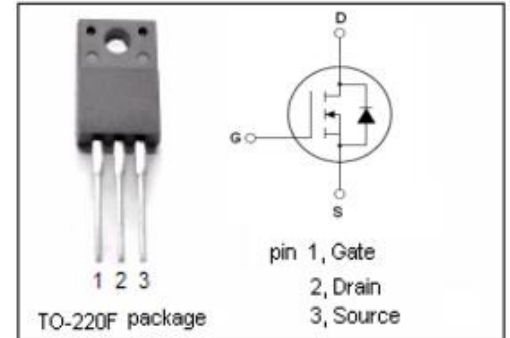
- Drain-source on-resistance:  
 $R_{DS(on)} \leq 110m\Omega @ 10V$
- Fast Switching Speed
- Low drive current
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### • APPLICATIONS

- High fast switching Power Supply

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{DS}$	Drain-Source Voltage	-60	V
$V_{GS}$	Gate-Source Voltage	$\pm 20$	V
$I_D$	Drain Current-Continuous	-12	A
$I_{DM}$	Drain Current-Single Pulsed	-48	A
$P_D$	Total Dissipation @ $T_c=25^\circ C$	25	W
$T_j$	Max. Operating Junction Temperature	150	$^\circ C$
$T_{stg}$	Storage Temperature	-55~150	$^\circ C$



**isc P-Channel MOSFET Transistor****2SJ526****ELECTRICAL CHARACTERISTICS** $T_c=25^\circ\text{C}$  unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
$BV_{DSS}$	Drain-Source Breakdown Voltage	$V_{GS}=0V; I_D=-10mA$	-60			V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=-10V; I_D=-1mA$	-1		-2	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=-10V; I_D=-6A$ $V_{GS}=-4V; I_D=-6A$			150 230	$m\Omega$
$I_{GSS}$	Gate-Source Leakage Current	$V_{GS}=\pm 16V; V_{DS}=0V$			$\pm 10$	$\mu A$
$I_{DSS}$	Drain-Source Leakage Current	$V_{DS}=-60V; V_{GS}=0V$			-10	$\mu A$
$V_{SD}$	Diode forward on voltage	$I_{SD}=-12A, V_{GS}=0V$		-1.2		V

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