

isc P-Channel MOSFET Transistor

2SJ156

DESCRIPTION

- Low Drain-Source ON Resistance
- High Forward Transfer Admittance
- Low Leakage Current
- Enhancement-Mode
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.

APPLICATIONS

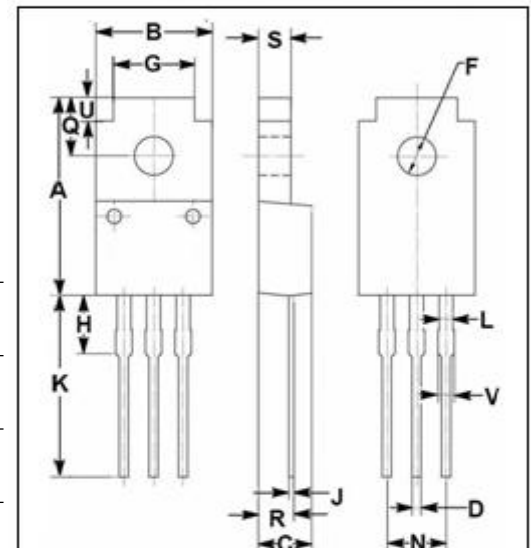
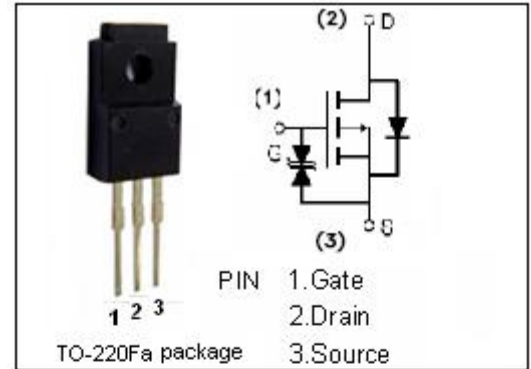
- High speed switching application
- Switching regulator ,DC-DC converter and Motor drive application

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage ($V_{GS}=0$)	-50	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-continuous@ $TC=37^{\circ}\text{C}$	-5	A
P_{tot}	Total Dissipation@ $TC=25^{\circ}\text{C}$	30	W
T_j	Max. Operating Junction Temperature	-55~150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~150	$^{\circ}\text{C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance,Junction to Case	3.1	$^{\circ}\text{C}/\text{W}$
$R_{th\ j-a}$	Thermal Resistance,Junction to Ambient	75	$^{\circ}\text{C}/\text{W}$



DIM	mm	
	MIN	MAX
A	16.85	17.15
B	9.90	10.10
C	4.35	4.65
D	0.75	0.80
F	3.20	3.40
G	6.90	7.10
H	3.70	3.90
J	0.45	0.75
K	13.35	13.65
L	1.10	1.30
N	4.98	5.18
Q	4.85	5.15
R	2.95	3.25
S	2.70	2.90
U	1.75	2.05
V	1.30	1.50

isc P-Channel Mosfet Transistor**2SJ156****• ELECTRICAL CHARACTERISTICS (T_c=25°C)**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = -10mA	-50		V
V _{GS(TH)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = -1mA	-1.0	-5.0	V
R _{DS(ON)}	Drain-Source On-stage Resistance	V _{GS} = -10V; I _D = -3A		0.22	Ω
I _{GSS}	Gate Source Leakage Current	V _{GS} = -16V; V _{DS} = 0		-10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = -50V; V _{GS} = 0		-0.1	mA
V _{SD}	Diode Forward Voltage	I _F =-56A; V _{GS} = 0		-1	V

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