

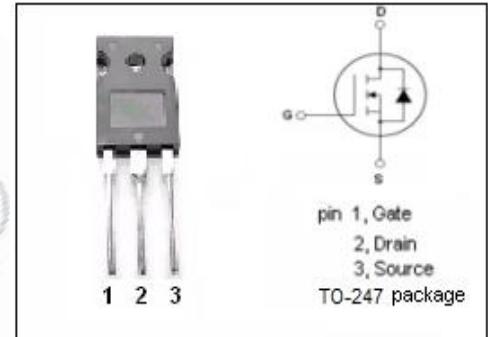
isc N-Channel MOSFET Transistor

SPW11N60C3

ISPW11N60C3

• FEATURES

- Static drain-source on-resistance:
 $R_{DS(on)} \leq 380\text{m}\Omega$
- Enhancement mode:
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

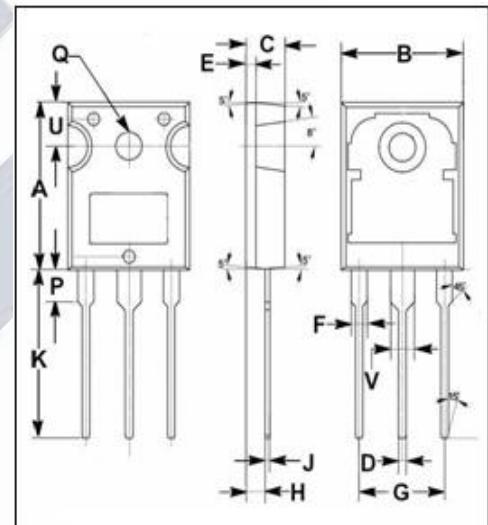


• DESCRIPTION

- High peak current capability

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	600	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous	11	A
I_{DM}	Drain Current-Single Pulsed	33	A
P_D	Total Dissipation @ $T_c=25^\circ\text{C}$	125	W
T_j	Max. Operating Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$



DIM	mm	
	MIN	MAX
A	19.80	20.20
B	15.40	15.80
C	4.90	5.10
D	0.90	1.10
E	1.40	1.60
F	1.90	2.10
G	10.80	11.00
H	2.40	2.60
J	0.50	0.70
K	19.50	20.50
P	3.90	4.10
Q	3.30	3.50
U	5.20	5.40
V	2.90	3.10

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(j-c)}$	Channel-to-case thermal resistance	1	$^\circ\text{C}/\text{W}$
$R_{th(j-a)}$	Channel-to-ambient thermal resistance	62	$^\circ\text{C}/\text{W}$

isc N-Channel MOSFET Transistor**SPW11N60C3****ISPW11N60C3****ELECTRICAL CHARACTERISTICS** $T_c=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	$V_{GS}=0\text{V}; I_D=0.25\text{mA}$	600			V
$V_{GS(\text{th})}$	Gate Threshold Voltage	$V_{DS}=V_{GS}; I_D=0.5\text{mA}$	2.1		3.9	V
$R_{DS(\text{on})}$	Drain-Source On-Resistance	$V_{GS}=10\text{V}; I_D=7\text{A}$			380	$\text{m}\Omega$
I_{GSS}	Gate-Source Leakage Current	$V_{GS}=30\text{V}; V_{DS}=0\text{V}$			0.1	μA
I_{DSS}	Drain-Source Leakage Current	$V_{DS}=600\text{V}; V_{GS}=0\text{V}$			25	μA
V_{SD}	Diode forward voltage	$I_F=I_S, V_{GS}=0\text{V}$			1.2	V