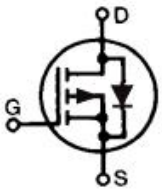
isc P-Channel MOSFET Transistor RSJ250P10

- **FEATURES**
- Drain Current $-I_D$= -25A@ T_C=25℃
- Drain Source Voltage
  : V_{DSS}= -100V(Min)
- Static Drain-Source On-Resistance
  : $R_{DS(on)}$ = 63mΩ(Max) @V_{GS}=10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

- **DESCRIPTION**
- Be suitable for synchronous rectification for server and general purpose applications

D²PAK



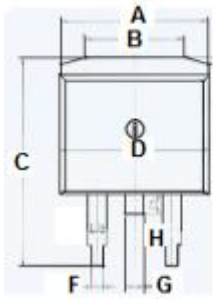
pin 1.Gate
2.Drain
3.Source
TO-263 package

- **ABSOLUTE MAXIMUM RATINGS(T_a=25℃)**

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	-100	V
V_{GS}	Gate-Source Voltage	±20	V
I_D	Drain Current-Continuous	-25	A
I_{DM}	Drain Current-Single Pulsed	-50	A
P_D	Total Dissipation @T_C=25℃	50	W
T_j	Max. Operating Junction Temperature	-55~150	℃
T_{stg}	Storage Temperature	-55~150	℃

- **THERMAL CHARACTERISTICS**

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	2.5	℃/W



DIM	mm	
	MIN	MAX
A	9.8	10.2
B	6.6	6.8
C	15.1	15.3
D	9.6	10
F	0.7	0.9
G	1.26	1.3
H	1.2	1.45
L	4.4	4.6
Q	9.2	9.3
S	1.25	1.35
V	0.4	0.6
W	2.6	2.8

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	V_{GS}=0V; I_D = -1mA	-100		V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}= V_{GS}; I_D = -1mA	-1.0	-2.5	V
$R_{DS(on)}$	Drain-Source On-Resistance	V_{GS}= -10V; I_D= -25A V_{GS}= -4.0V; I_D= -12.5A		63 70	mΩ
I_{GSS}	Gate-Source Leakage Current	V_{GS}= ±20V;V_{DS}= 0V		±10	uA
I_{DSS}	Drain-Source Leakage Current	V_{DS}= -100V; V_{GS}= 0V		-1.0	μA
V_{SD}	Diode forward voltage	Is= -25A; V_{GS} = 0V		-1.2	V

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