

## isc N-Channel MOSFET Transistor

# IPI70R950CE

#### • FEATURES

- Static drain-source on-resistance:
  R<sub>DS</sub>(on) ≤0.38Ω
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

### DESCRIPTION

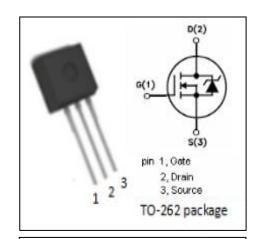
 Provide all benefits of a fast switching SJ MOSFET while not sacrificing ease of use



SYMBOL	PARAMETER	VALUE	UNIT
V <sub>DSS</sub>	Drain-Source Voltage	700	V
V <sub>GS</sub>	Gate-Source Voltage	±20	V
I <sub>D</sub>	Drain Current-Continuous	7.4	А
I <sub>DM</sub>	Drain Current-Single Pulsed	12	А
P <sub>D</sub>	Total Dissipation @T <sub>C</sub> =25°C	68	W
Tj	Max. Operating Junction Temperature	-40~150	$^{\circ}$
T <sub>stg</sub>	Storage Temperature	-40~150	$^{\circ}$

### • THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.85	°C/W



	7	1	4 5	A
6 h2	12	A		200
	12)		ım	
	DIM	MIN	MAX	
İ	A	4.37	4.77	
	A1	1.22	1.42	
	A2	2.47	2.87	
	Ъ	0.70	0.97	
	Ъ2	1.17	1.42	
	С	0.28	0.53	
	D	23.20	24.02	
	D1	8.38	8.90	
	D2	6.00	-8	
	E	9.90	10.39	
[	E4	7.30		
	е	2.5	4BSC	
[	G	1.25	1.50	
[	H2	( <del>-</del>	1.31	
	L	13.34	14.10	
	L1	3.30	4.06	



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#### **ELECTRICAL CHARACTERISTICS**

T<sub>C</sub>=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V; ID =1mA	700			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> =V <sub>GS</sub> ; ID =0.15mA	2.5		3.5	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> =10V; ID=1.5A			0.95	Ω
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> =±20V; V <sub>DS</sub> =0V			±0.1	μА
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> =700V; V <sub>GS</sub> = 0V			1	μА
V <sub>SD</sub>	Diode forward voltage	I <sub>F</sub> =2.2A; V <sub>GS</sub> = 0V		0.9		V

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