

isc N-Channel MOSFET Transistor

IPP60R520E6, IIPP60R520E6

• FEATURES

- Static drain-source on-resistance:
 R_{DS}(on) ≤0.52Ω
- Enhancement mode
- · Fast Switching Speed
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

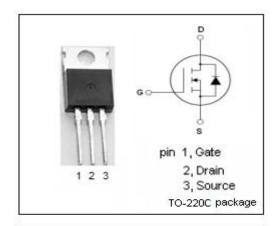
 Provide all benefits of a fast switching SJ MOSFET while not sacrificing ease of use

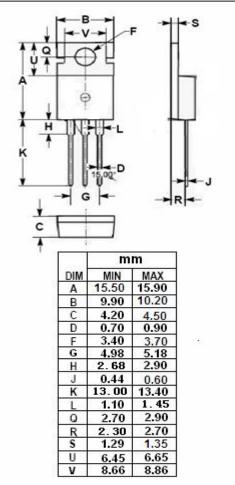
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ADOCESTE MAXIMOM (VATINGO)						
SYMBOL	PARAMETER	VALUE	UNIT			
V _{DSS}	Drain-Source Voltage	V				
V _{GS}	Gate-Source Voltage	±20	V			
I _D	Drain Current-Continuous 8.1		А			
I _{DM}	Drain Current-Single Pulsed	22	A			
P_D	Total Dissipation @T _C =25℃	66	W			
Tj	Max. Operating Junction Temperature	150	$^{\circ}\mathbb{C}$			
T _{stg}	Storage Temperature -55~150		$^{\circ}$			

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1.9	°C/W
Rth(ch-a) Channel-to-ambient thermal resistance		62	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	МАХ	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; ID =0.25mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; ID =0.23mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; ID=2.8A			0.52	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} =0V			0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _F =3.5A; V _{GS} = 0V		0.9		V

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