

isc P-Channel MOSFET Transistor

IXTA24P085T

• FEATURES

- Static drain-source on-resistance:
 $R_{DS(on)} \leq 65m\Omega$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• APPLICATION

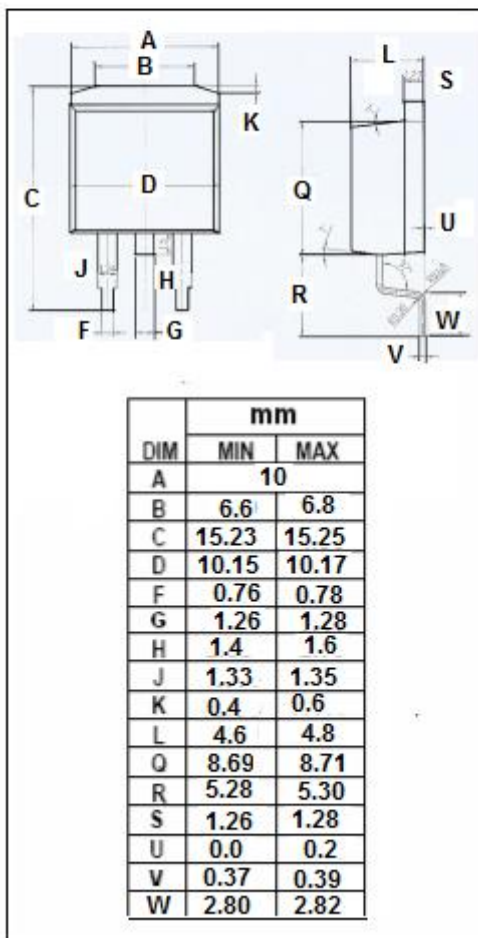
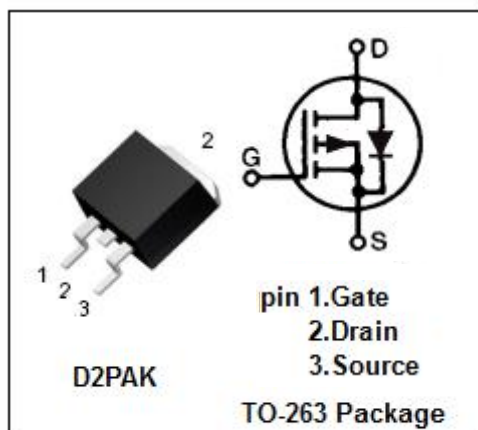
- High side switching
- Current regulators
- Automatic test equipment

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DS}	Drain-Source Voltage	-85	V
V_{GS}	Gate-Source Voltage	± 15	V
I_D	Drain Current-Continuous	-24	A
I_{DM}	Drain Current-Single Pulsed	-80	A
P_D	Total Dissipation @ $T_c=25^\circ\text{C}$	83	W
T_j	Operating Junction Temperature	-55~150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55~150	$^\circ\text{C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(j-c)}$	Channel-to-case thermal resistance	1.5	$^\circ\text{C/W}$



isc P-Channel MOSFET Transistor**IXTA24P085T****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	$V_{GS}=0V$; $I_D = -250\ \mu A$	-85			V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}$; $I_D = -250\ \mu A$	-2.5		-4.5	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS} = -10V$; $I_D = -12A$			65	$m\Omega$
I_{GSS}	Gate-Source Leakage Current	$V_{GS} = \pm 15V$			± 50	nA
I_{DSS}	Drain-Source Leakage Current	$V_{DS} = V_{DSS}$; $V_{GS} = 0V$			-3	μA
		$V_{DS} = V_{DSS}$; $V_{GS} = 0V$; $T_J = 125^{\circ}\text{C}$			-100	
V_{SD}	Diode forward voltage	$I_F = -24A$; $V_{GS} = 0V$			-1.5	V

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