

## isc P-Channel MOSFET Transistor

## IXTA28P065T

## • FEATURES

- Static drain-source on-resistance:  
 $R_{DS(on)} \leq 45m\Omega$
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## • APPLICATION

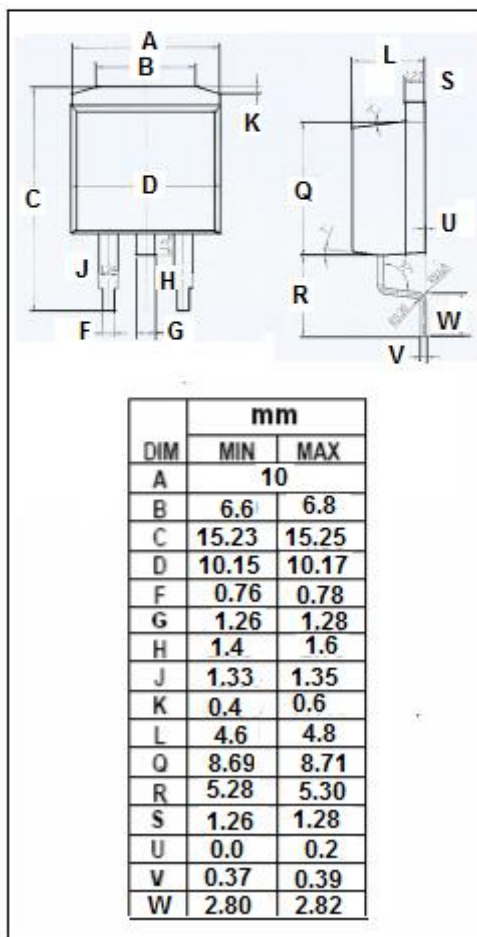
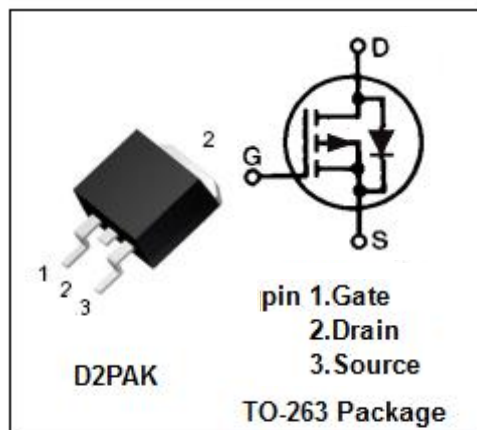
- High side switching
- Current regulators
- Automatic test equipment

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

SYMBOL	PARAMETER	VALUE	UNIT
$V_{DS}$	Drain-Source Voltage	-65	V
$V_{GS}$	Gate-Source Voltage	$\pm 15$	V
$I_D$	Drain Current-Continuous	-28	A
$I_{DM}$	Drain Current-Single Pulsed	-90	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****IXTA28P065T****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$  unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
$BV_{DSS}$	Drain-Source Breakdown Voltage	$V_{GS}=0V$ ; $I_D = -250\ \mu A$	-65			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	$V_{GS} = -10V$ ; $I_D = -14A$			45	$m\Omega$
$I_{GSS}$	Gate-Source Leakage Current	$V_{GS} = \pm 15V$ ; $V_{DS}=0$			$\pm 50$	nA
$I_{DSS}$	Drain-Source Leakage Current	$V_{DS} = V_{DSS}$ ; $V_{GS} = 0V$			-3	$\mu A$
		$V_{DS} = V_{DSS}$ ; $V_{GS} = 0V$ ; $T_J=125^{\circ}\text{C}$			-100	
$V_{SD}$	Diode forward voltage	$I_F = -28A$ ; $V_{GS} = 0V$			-1.5	V

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