

# STA504A

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N-channel

捷多邦, 专业PCB打样工厂, 24小时加急出货

General purpose

External dimensions  $\text{D} \cdots \text{STA400}$

## Absolute maximum ratings

( $T_a=25^\circ\text{C}$ )

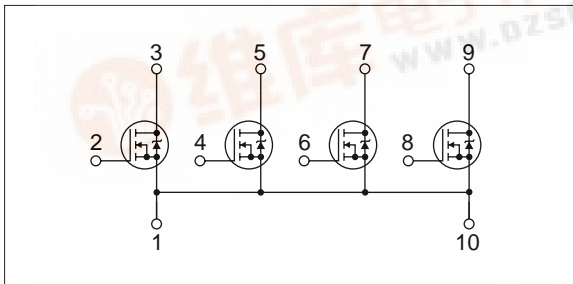
Symbol	Ratings	Unit
$V_{BSS}$	60	V
$V_{GSS}$	$\pm 20$	V
$I_D$	$\pm 4$	A
$I_D(\text{pulse})$	$\pm 8$ ( $PW \leq 100\mu\text{s}$ , $D_u \leq 1\%$ )	A
$P_T$	4 ( $T_a=25^\circ\text{C}$ )	W
	20 ( $T_c=25^\circ\text{C}$ )	W
$T_{ch}$	150	$^\circ\text{C}$
$T_{stg}$	-40 to +150	$^\circ\text{C}$

## Electrical characteristics

( $T_a=25^\circ\text{C}$ )

Symbol	Specification			Unit	Conditions
	min	typ	max		
$V_{(BR)DSS}$	60			V	$I_D=100\mu\text{A}$ , $V_{GS}=0\text{V}$
$I_{GSS}$			$\pm 100$	nA	$V_{DS}=\pm 20\text{V}$
$I_{DSS}$			100	$\mu\text{A}$	$V_{DS}=60\text{V}$ , $V_{GS}=0\text{V}$
$V_{TH}$	2.0		4.0	V	$V_{DS}=10\text{V}$ , $I_D=250\mu\text{A}$
$R_{\theta(jc)}$	1.2			S	$V_{DS}=10\text{V}$ , $I_D=2\text{A}$
$R_{DS(ON)}$		0.33	0.45	$\Omega$	$V_{GS}=10\text{V}$ , $I_D=2\text{A}$
$C_{iss}$		120		pF	$V_{DS}=25\text{V}$ ,
$C_{oss}$		60		pF	$f=1.0\text{MHz}$ ,
$C_{rss}$		14		pF	$V_{GS}=0\text{V}$
$V_{SD}$		1.1	1.5	V	$I_{SD}=4\text{A}$ , $V_{GS}=0\text{V}$
$t_{rr}$		100		ns	$I_{SD}=\pm 100\text{mA}$

## Equivalent circuit diagram



## Characteristic curves