

SLA5015

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P-channel

捷多邦，专业PCB打样工厂，24小时加急出货

General purpose

External dimensions A...SLA

Absolute maximum ratings

(Ta=25°C)

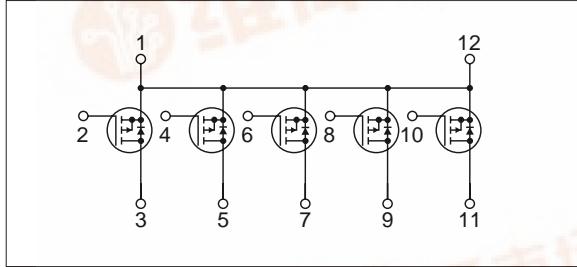
Symbol	Ratings	Unit
V _{DSS}	-60	V
V _{GSS}	±20	V
I _d	±4	A
I _{d(pulse)}	±8 (PW≤1ms)	A
P _T	5 (Ta=25°C, with all circuits operating, without heatsink) 35 (Tc=25°C, with all circuits operating, with infinite heatsink)	W
θ _{j-a}	25 (Junction-Air, Ta=25°C, with all circuits operating)	°C/W
θ _{j-c}	3.57 (Junction-Case, Tc=25°C, with all circuits operating)	°C/W
V _{iso}	1000 (Between fin and lead pin, AC)	Vrms
T _{ch}	150	°C
T _{tstg}	-40 to +150	°C

Electrical characteristics

(Ta=25°C)

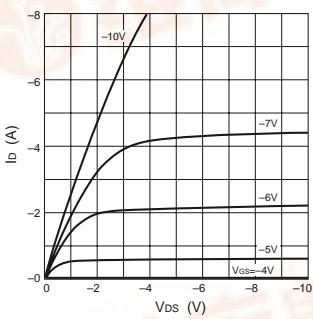
Symbol	Specification			Unit	Conditions
	min	typ	max		
V _{(BR)DSS}	-60			V	I _d =-250μA, V _{GS} =0V
I _{GS}			±500	nA	V _{GS} =±20V
I _{DS}			-250	μA	V _{DS} =-60V, V _{GS} =0V
V _{TH}	-2.0		-4.0	V	V _{DS} =-10V, I _d =-250μA
R _{e(yfs)}	1.6	2.2		S	V _{DS} =-10V, I _d =-4A
R _{DS(ON)}		0.38	0.55	Ω	V _{GS} =-10V, I _d =-4A
C _{iss}		270		pF	V _{DS} =-25V, f=1.0MHz,
C _{oss}		170		pF	V _{GS} =0V
t _{on}		60		ns	I _d =-4A, V _{DD} =-30V, V _{GS} =-10V,
t _{off}		60		ns	see Fig. 4 on page 16.
V _{SD}		-4.5	-5.5	V	I _{SD} =-4A
t _{rr}		150		ns	I _{SD} =±100mA

■Equivalent circuit diagram

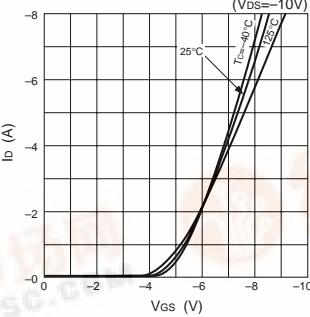


Characteristic curves

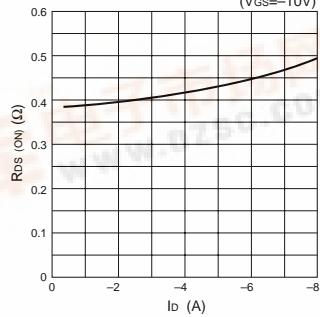
I_d-V_{DS} Characteristics (Typical)



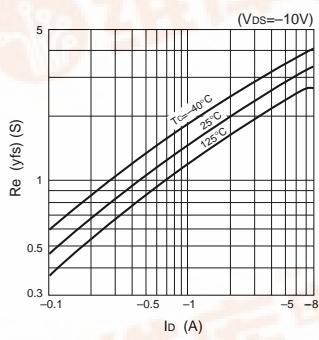
I_d-V_{GS} Characteristics (Typical)



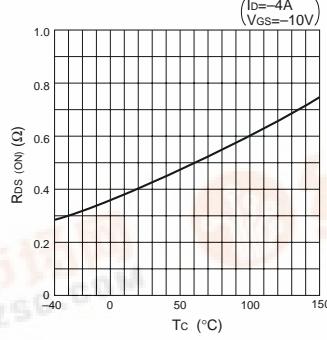
R_{DS(ON)}-I_d Characteristics (Typical)



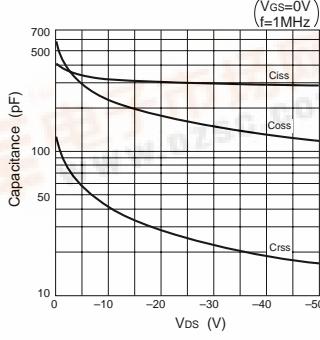
R_{e(yfs)}-I_d Characteristics (Typical)



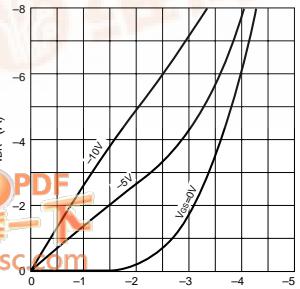
R_{DS(ON)}-T_c Characteristics (Typical)



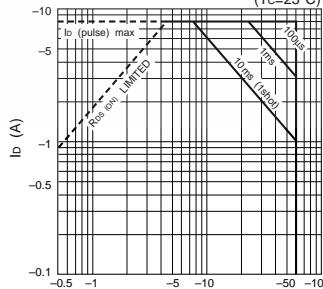
Capacitance-V_{DS} Characteristics (Typical)



I_{dR}-V_{SD} Characteristics (Typical)



Safe Operating Area (SOA)



P_T-T_a Characteristics

