

SLA5026

查询SLA5026供应商

N-channel

捷多邦，专业PCB打样工厂，24小时加急出货

General purpose

External dimensions A...SLA

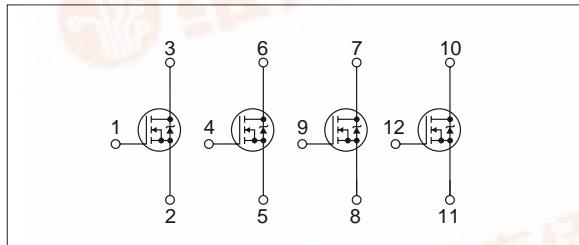
Absolute maximum ratings

(Ta=25°C)

Symbol	Ratings	Unit
V _{DSS}	100	V
V _{GSS}	±20	V
I _D	±10	A
I _{D(pulse)}	±40 (PW≤1ms)	A
EAS*	70	mJ
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 _{stg}	-40 to +150	°C

* : V_{DD}=25V, L=4.2mH, I_D=5A, unclamped, R_G=50Ω, see Fig. E on page 15.

■Equivalent circuit diagram



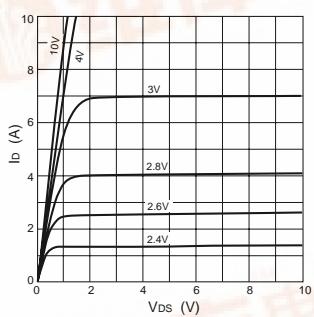
Electrical characteristics

(Ta=25°C)

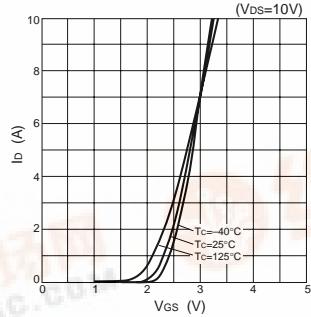
Symbol	Specification			Unit	Conditions
	min	typ	max		
V _{(BR)DSS}	100			V	I _D =100μA, V _{GS} =0V
I _{GSS}			±100	nA	V _{GS} =±20V
I _{DS}			100	μA	V _{DS} =100V, V _{GS} =0V
V _{TH}	1.0		2.0	V	V _{DS} =10V, I _D =250μA
R _{e(yfs)}	7	10		S	V _{DS} =10V, I _D =5A
R _{Ds(ON)}		110	175	mΩ	V _{GS} =10V, I _D =5A
		140	220	mΩ	V _{GS} =4V, I _D =5A
C _{iss}		740		pF	V _{DS} =10V, f=1.0MHz,
C _{oss}		240		pF	V _{GS} =0V
t _{d(on)}		20		ns	I _D =5A,
t _r		45		ns	V _{DD} =50V,
t _{d(off)}		60		ns	R _L =10Ω, V _{GS} =5V,
t _f		20		ns	see Fig. 3 on page 16.
V _{SD}		1.0	1.4	V	I _{SD} =10A, V _{GS} =0V
t _{rr}		180		ns	I _{SD} =±100mA

Characteristic curves

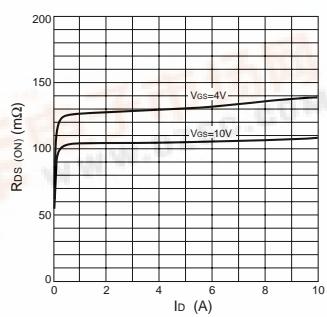
Id-Vds Characteristics (Typical)



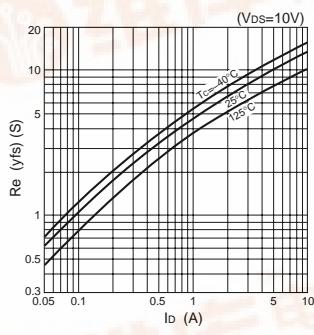
Id-Vgs Characteristics (Typical)



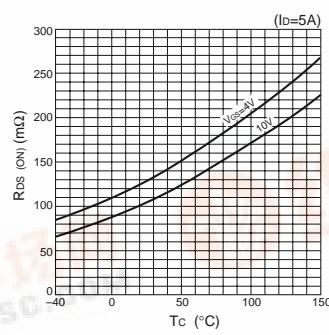
Rds(ON)-Id Characteristics (Typical)



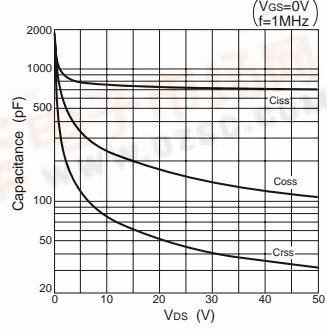
Re(yfs)-Id Characteristics (Typical)



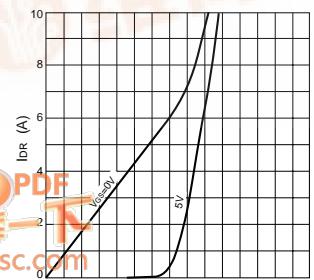
Rds(ON)-Tc Characteristics (Typical)



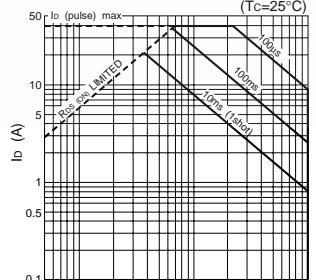
Capacitance-Vds Characteristics (Typical)



IDr-Vsd Characteristics (Typical)



Safe Operating Area (SOA)



PT-Ta Characteristics

