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SLA5064

N-channel+P-channel
3-phase motor drive

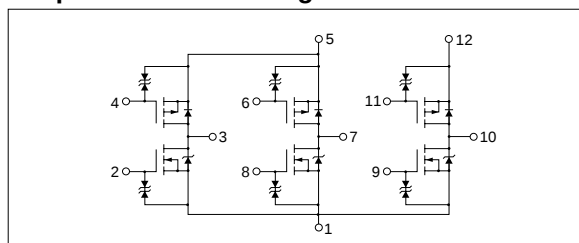
External dimensions  SLA (12-pin)

Absolute maximum ratings

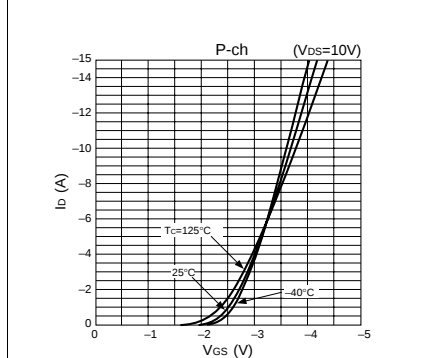
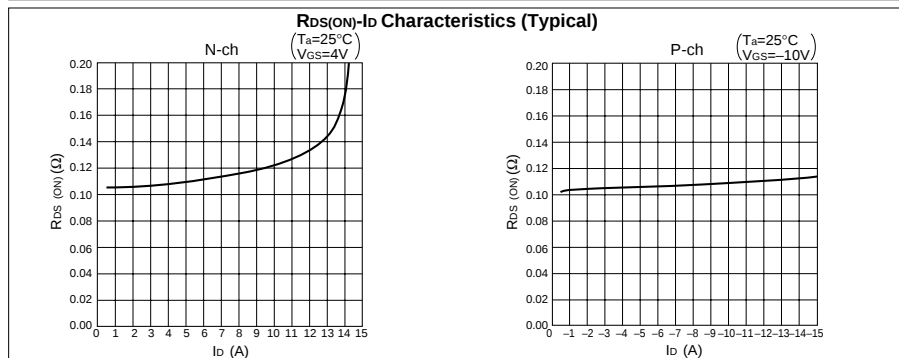
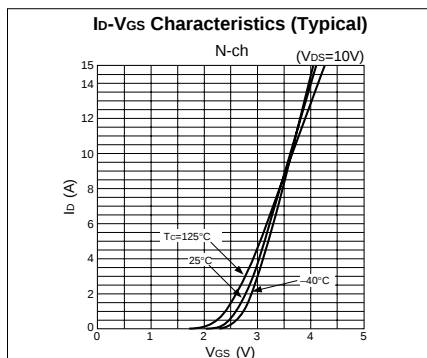
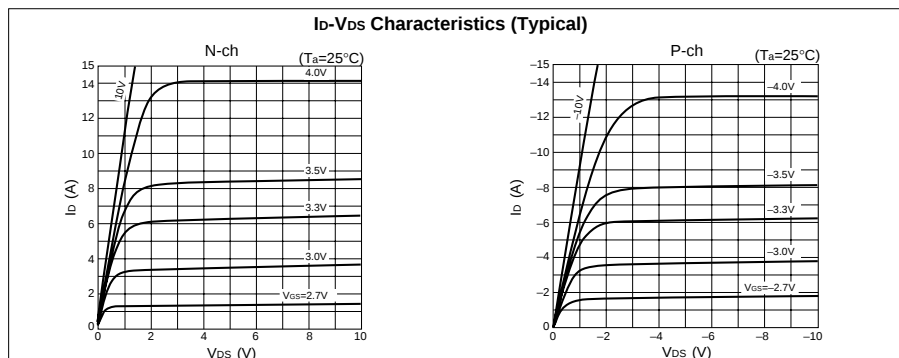
(Ta=25°C)

Symbol	Ratings		Unit
	N channel	P channel	
V _{DSS}	60	-60	V
V _{GSS}	±20	±20	V
I _D	10	-10	A
I _{D(pulse)}	15 (PW≤1ms, duty≤25%)	-15 (PW≤1ms, duty≤25%)	A
P _T	5 (Ta=25°C, with all circuits operating, without heatsink)		W
	40 (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}	3.125 (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

Equivalent circuit diagram



Characteristic curves



SLA5064

Electrical characteristics

(Ta=25°C)

Symbol	N channel					P channel				
	Specification			Unit	Conditions	Specification			Unit	Conditions
	min	typ	max			min	typ	max		
V(BR)DSS	60			V	Id=100μA, VGS=0V	-60			V	Id=-100μA, VGS=0V
IGSS			±10	μA	VGS=±20V			±10	μA	VGS=±20V
IDSS			100	μA	VDS=60V, VGS=0V			-100	μA	VDS=-60V, VGS=0V
VTH	1.0		2.0	V	VDS=10V, Id=250μA	-1.0		-2.0	V	VDS=-10V, Id=-250μA
Re(yfs)		8		S	VDS=10V, Id=5A		8.7		S	VDS=-10V, Id=-5A
RDS(ON)			0.14	Ω	VGS=4V, Id=5A			0.14	Ω	VGS=-10V, Id=-5A
Ciss		460		pF	VDS=10V, f=1.0MHz, VGS=0V		1200		pF	VDS=-10V, f=1.0MHz, VGS=0V
Coss		225		pF			440		pF	
Crss		50		pF			120		pF	
td(on)		25		ns	Id=5A, VDD≐20V, RL=4Ω, VGS=5V, see Fig. 3 on page 16.		50		ns	Id=-5A, VDD≐20V, RL=4Ω, VGS=-5V, see Fig. 4 on page 16.
tr		110		ns			170		ns	
td(off)		90		ns			180		ns	
tf		55		ns			100		ns	
VSD		1.15		V	ISD=10A, VGS=0V		-1.25		V	ISD=-10A, VGS=0V
trr		75		ns	ISD=5A, VGS=0V, di/dt=100A/μs		100		ns	ISD=-5A, VGS=0V, di/dt=100A/μs

Characteristic curves

