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# SLA6026

PNP + NPN Darlington  
 3-phase motor drive

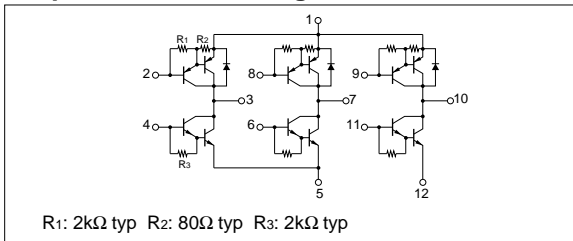
External dimensions SLA (12-pin)

## Absolute maximum ratings

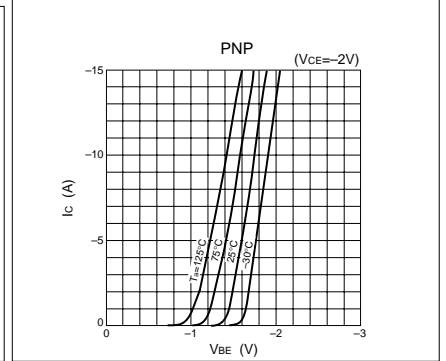
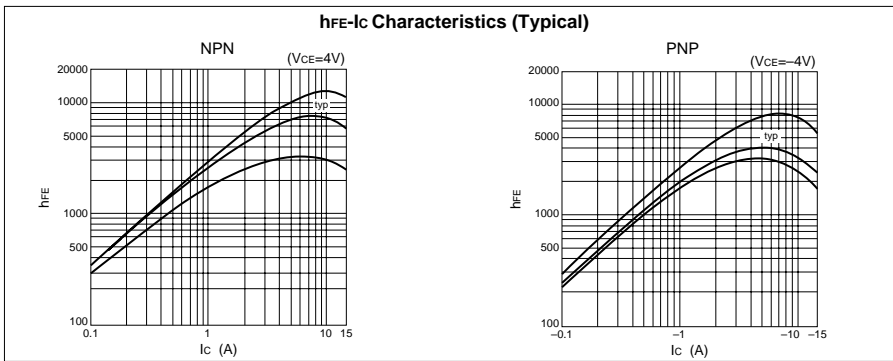
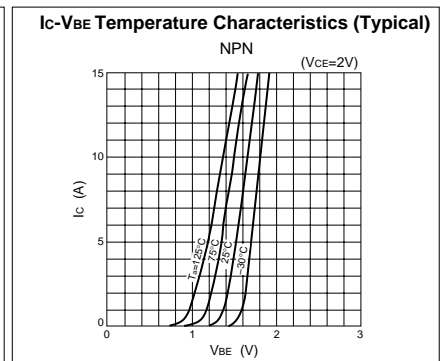
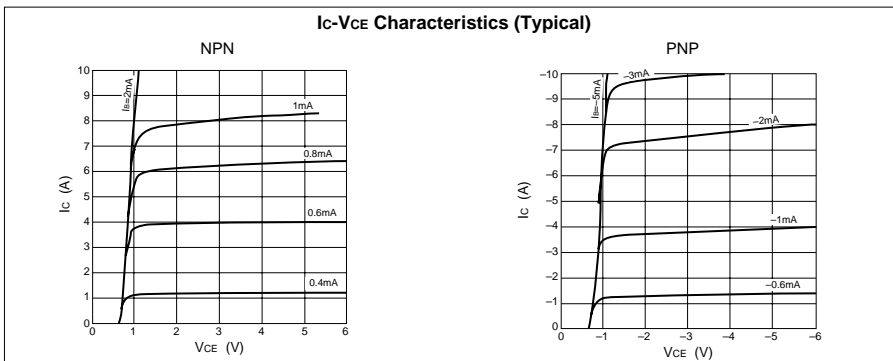
( $T_a=25^\circ\text{C}$ )

Symbol	Ratings		Unit
	NPN	PNP	
$V_{CBO}$	60	-60	V
$V_{CEO}$	60	-60	V
$V_{EBO}$	6	-6	V
$I_c$	10	-10	A
$I_{cP}$	15 ( $PW \leq 1\text{ms}, D_u \leq 50\%$ )	-15 ( $PW \leq 1\text{ms}, D_u \leq 50\%$ )	A
$I_{FEC}$	—	-10	A
$I_{FECp}$	—	-15	A
$I_B$	0.5	-0.5	A
$P_T$	5 ( $T_a=25^\circ\text{C}$ )		W
	35 ( $T_c=25^\circ\text{C}$ )		
$V_{ISO}$	1000 (Between fin and lead pin, AC)		$V_{rms}$
$T_j$	150		$^\circ\text{C}$
$T_{stg}$	-40 to +150		$^\circ\text{C}$
$\theta_{j-c}$	3.57		$^\circ\text{C/W}$

## Equivalent circuit diagram



## Characteristic curves



# SLA6026

## Electrical characteristics

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

Symbol	NPN					PNP				
	Specification			Unit	Conditions	Specification			Unit	Conditions
	min	typ	max			min	typ	max		
$I_{CBO}$			10	$\mu\text{A}$	$V_{CB}=60\text{V}$			-10	$\mu\text{A}$	$V_{CB}=-60\text{V}$
$I_{EBO}$			10	$\mu\text{A}$	$V_{EB}=6\text{V}$			-10	$\text{mA}$	$V_{EB}=-6\text{V}$
$V_{CEO}$	60			$\text{V}$	$I_C=10\text{mA}$	-60			$\text{V}$	$I_C=-10\text{mA}$
$h_{FE}$	2000	5000	12000		$V_{CE}=4\text{V}, I_C=6\text{A}$	2000	5000	12000		$V_{CE}=-4\text{V}, I_C=-6\text{A}$
$V_{CE(sat)}$			1.5	$\text{V}$	$I_C=6\text{A}, I_B=12\text{mA}$			-1.5	$\text{V}$	$I_C=-6\text{A}, I_B=-12\text{mA}$
$V_{BE(sat)}$			2.0	$\text{V}$				-2.0	$\text{V}$	
$V_{FEC}$		-		$\text{V}$				2.0	$\text{V}$	$I_{FEC}=-6\text{A}$
$t_{rr}$		-		$\mu\text{s}$			4.0		$\mu\text{s}$	$I_{FEC}=\pm 0.5\text{A}$
$t_{on}$		0.6		$\mu\text{s}$	$V_{CC}=\pm 24\text{V}, I_C=6\text{A}, I_{B1}=-I_{B2}=12\text{mA}$			0.7	$\mu\text{s}$	$V_{CC}=\pm 24\text{V}, I_C=-6\text{A}, I_{B1}=-I_{B2}=-12\text{mA}$
$t_{stg}$		2.0		$\mu\text{s}$				1.2	$\mu\text{s}$	
$t_f$		1.5		$\mu\text{s}$				0.7	$\mu\text{s}$	
$f_T$		50		$\text{MHz}$				50	$\text{MHz}$	
$C_{ob}$		100		$\text{pF}$	$V_{CB}=10\text{V}, f=1\text{MHz}$			180	$\text{pF}$	$V_{CB}=-10\text{V}, f=1\text{MHz}$

## Characteristic curves

