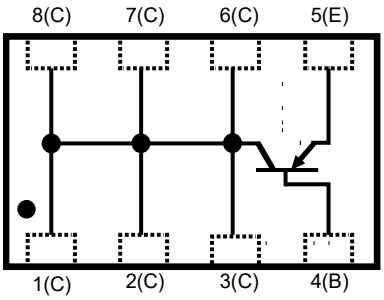
Feature

This device is Pb-Free, Halogen Free/BFR Free and RoHS compliant.

- Very low collector to emitter saturation voltage
- DC current gain >100
- 3A continuous collector current
- PNP epitaxial planar silicon transistor



Mechanical Characteristics

- Lead finish:100% matte Sn(Tin)
- Mounting position: Any
- Qualified max reflow temperature:260℃
- Device meets MSL 1 requirements
- Pin flatness:≤3mil

Electrical characteristics per line@25℃(unless otherwise specified)

Parameter	Symbol	Conditions	Value	Units
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_B=0 I_C=-10mA	-32	V
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	I_E=0 I_C=-100uA	-48	V
Emitter -Base Breakdown Voltage	$V_{(BR)EBO}$	I_C=0 I_E=-100uA	-5	V
Collector Current	I_C		-3	A
Collector Peak Current(1)	I_{CM}		-6	A
Base Current	I_B		-0.2	A
Base Peak Current	I_{BM}		-0.5	A
Total Dissipation @25°C(2)	P_{tot}		3.0	W
Storage Temperature	T_{stg}		-65~150	°C
Max. Operating Junction Temperature	T_j		150	°C
Junction-to-Ambient Thermal Resistance(2)	$R_{\theta JA}$		42	°C/ W

Note 1: Pulse width=300μs, Duty Cycle<2%

Note 2: Surface mounted on FR-4 Board using 1 square inch pad size, 1oz copper

Absolute maximum rating@25℃

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
DC Current Gain	h_{FE}	I_C=-500mA,V_{CE}=-3.0V	150			-
		I_C=-1A,V_{CE}=-5V	100		-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-0.5A,I_B=-50mA	-		-0.18	V
		I_C=-1.2A,I_B=-20mA	-		-0.4	
		I_C=-2A,I_B=-200mA	-		-0.6	
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=-1A,I_B=-50mA			-1.2	V
		I_C=-2A,I_B=-200mA			-1.5	
Collector Cut-off Current (I_E=0)	I_{CBO}	V_{CB}=-30V			-0.1	μA
		V_{CB}=-30V T_C=125°C			-20	
Emitter Cut-off Current(I_C=0)	I_{EBO}	V_{EB}=-5V			-0.1	μA

Typical Characteristics

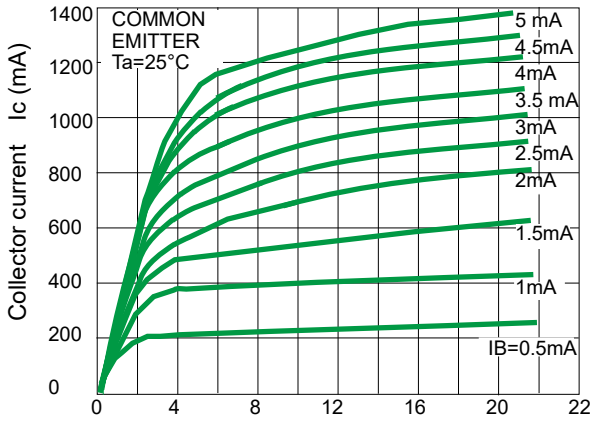


Fig1.Collector-emitter voltage V_{CE} (V)

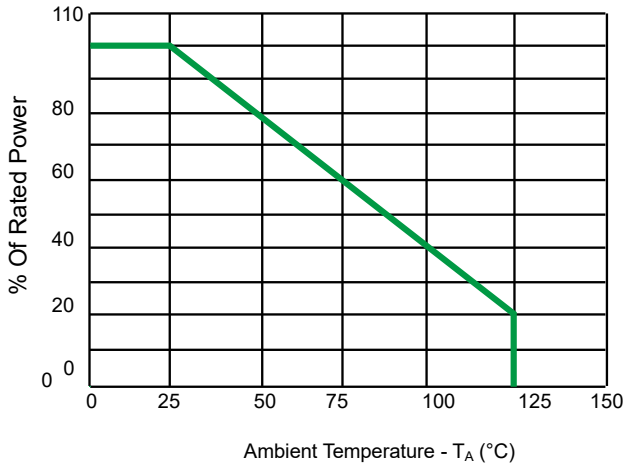


Fig2. Power Derating Curve

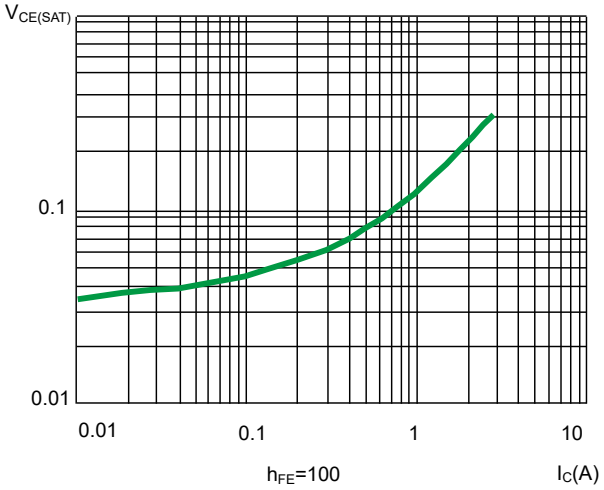


Fig 3.Collector-Emitter Saturation Voltage

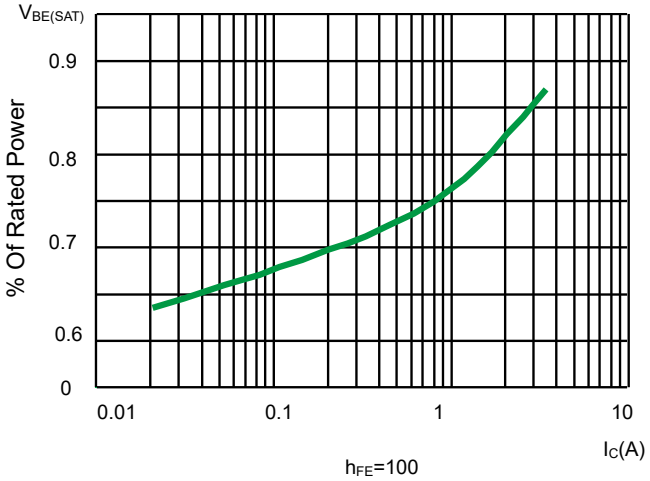


Fig4. Base-Emitter Saturation Voltage

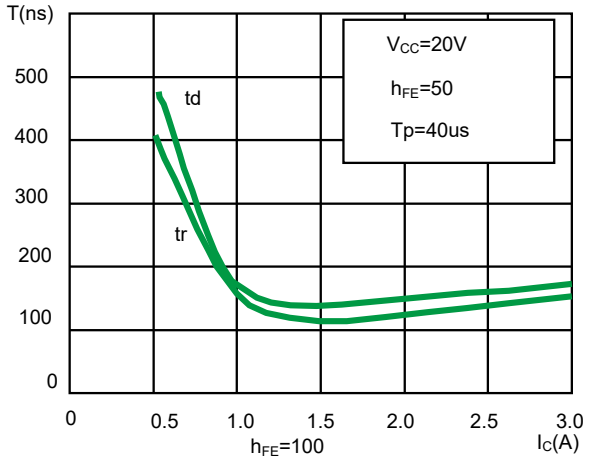


Fig 5.Switching Times Resistive Load

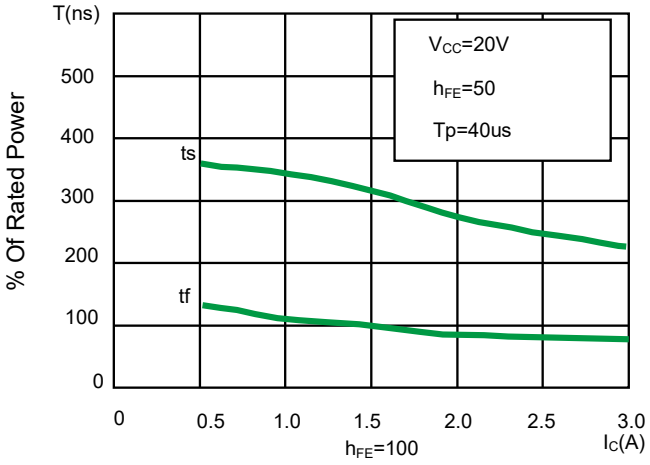


Fig6. Switching Times Resistive Load

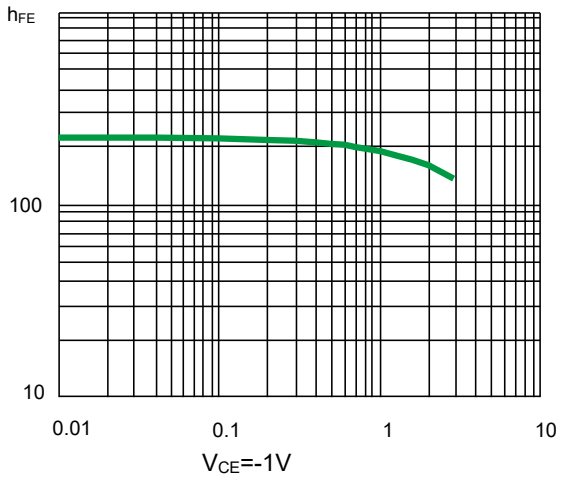
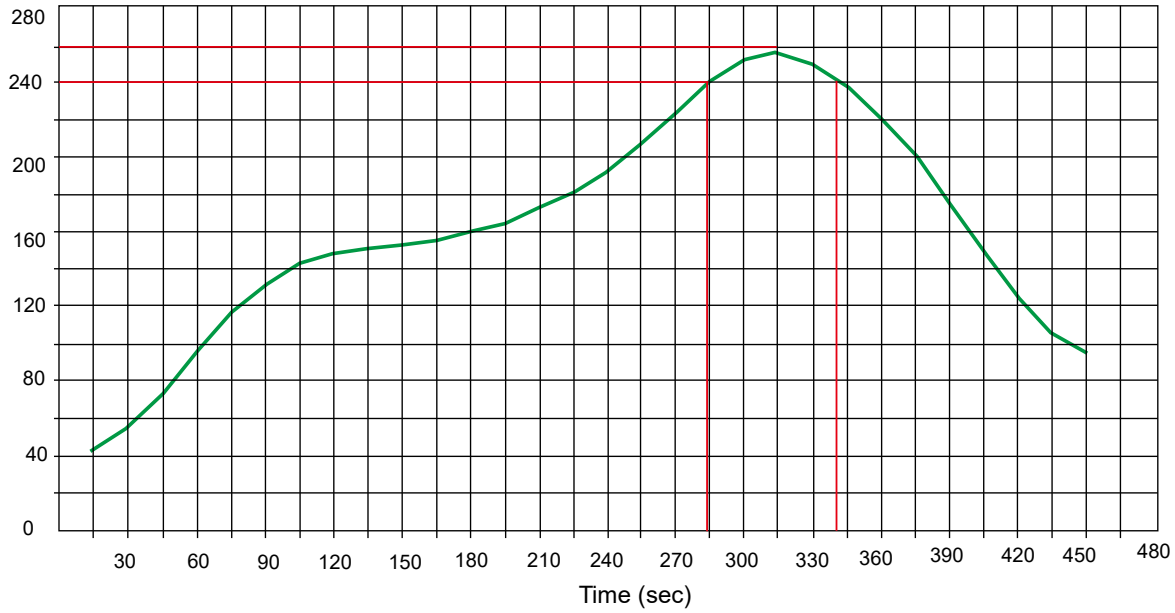


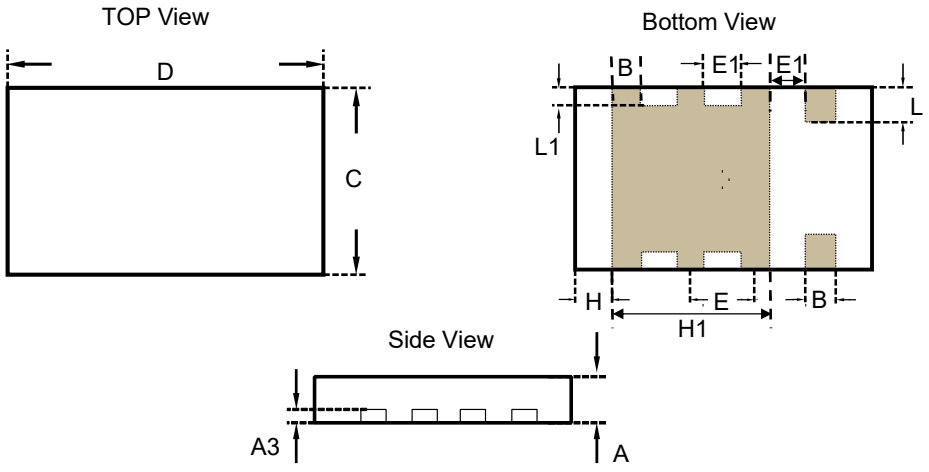
Fig7.DC Current Gain

Solder Reflow Recommendation

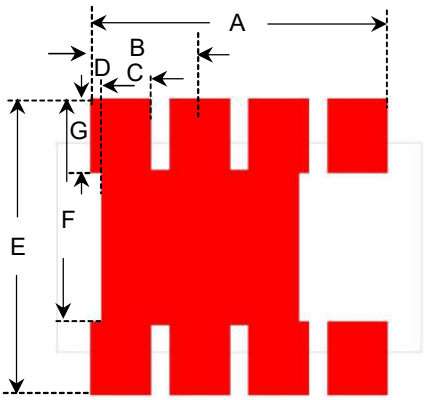
Peak Temp=257℃, Ramp Rate=0.802deg. ℃/sec



Product dimension (DFN3x2-8L)



Dim	Millimeters		
	MIN	TYP	MAX
A	0.425	0.475	0.525
A3	0.077	0.127	0.177
D	2.924	3.000	3.076
C	1.924	2.000	2.076
E	0.574	0.650	0.726
E1	0.300	0.350	0.400
L	0.450	0.500	0.550
L1	0.150	0.200	0.250
H	0.325	0.375	0.425
H1	1.550	1.600	1.650
B	0.250	0.300	0.350



Dim	Millimeters	
	MIN	MAX
A	2.45	--
B	0.90	--
C	0.50	--
D	0.05	--
E	2.50	--
F	1.90	--
G	0.60	--

Marking information

PD32
0301

Ordering information

Device	Package	Reel	Shipping
PPT8N30E2	DFN3x2-8L(Pb-Free)	7"	3000 / Tape & Reel

IMPORTANT NOTICE

and Prisemi® are registered trademarks of **Prisemi Electronics Co., Ltd (**Prisemi**)** ,Prisemi reserves the right to make changes without further notice to any products herein. Prisemi makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Prisemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. “Typical” parameters which may be provided in Prisemi data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including “Typicals” must be validated for each customer application by customer’s technical experts. Prisemi does not convey any license under its patent rights nor the rights of others. The products listed in this document are designed to be used with ordinary electronic equipment or devices, Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), please be sure to consult with our sales representative in advance.

Website: http://www.prisemi.com

For additional information, please contact your local Sales Representative.