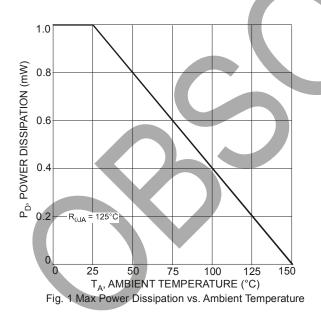


Electrical Characteristics @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
OFF CHARACTERISTICS (Note 4)						
Collector-Base Breakdown Voltage	V _{(BR)CBO}	-25	-58	—	V	$I_{C} = -100 \mu A, I_{E} = 0$
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-25	-38	_	V	I _C = -10mA, I _B = 0
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	-5	-8.5		V	$I_{\rm E} = -100 \mu A, I_{\rm C} = 0$
Collector Cutoff Current	I _{CBO}	_	_	-0.1 10	μA	V _{CB} = -15V, I _E = 0 V _{CB} = -15V, I _E = 0, T _A = 100°C
Emitter Cutoff Current	I _{EBO}	_	_	-0.1	μA	$V_{EB} = -4V, I_{C} = 0$
ON CHARACTERISTICS (Note 4)						
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	_	-0.11 -0.20 -0.21	-0.25 -0.45 -0.5	V	I _C = -1A, I _B = -10mA I _C = -2A, I _B = -20mA I _C = -3A, I _B = -100mA
Base-Emitter Saturation Voltage	V _{BE(SAT)}	_	-0.8	-1.0	V	I _C = -1A, I _B = -10mA
Base-Emitter Turn-On Voltage	V _{BE(ON)}	_	-0.8	—	V	$V_{CE} = -2V, I_{C} = -1A$
DC Current Gain	h _{FE}	300 250 200 100		800		$V_{CE} = -2V, I_C = -10mA$ $V_{CE} = -2V, I_C = -1A$ $V_{CE} = -2V, I_C = -2A$ $V_{CE} = -2V, I_C = -6A$
AC CHARACTERISTICS						
Transition Frequency	f _T	100			MHz	$V_{CE} = -5V, I_C = -50mA,$ f = 30MHz
Input Capacitance	C _{ibo}		290		MHz	V _{EB} = -0.5V, f = 1MHz
Output Capacitance	C _{obo}	_	46	< —	pF	V _{CB} = -10V, f = 1MHz
Switching Times	t _{on} t _{off}	_	38 200		ns ns	V _{CC} = -10V, I _C = -500mA, I _{B1} = -I _{B2} = -50mA

Notes: 4. Pulse Test: Pulse width \leq 300µs. Duty cycle \leq 2.0%.



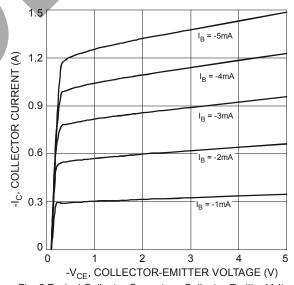
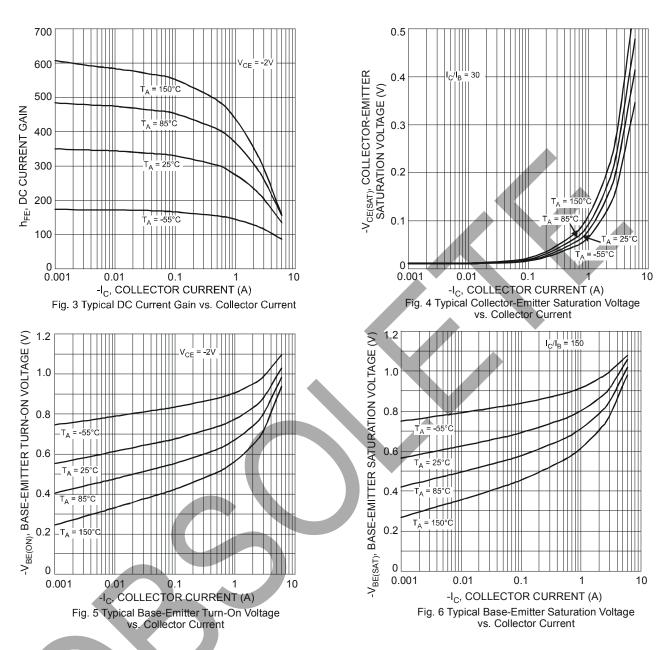


Fig. 2 Typical Collector Current vs. Collector-Emitter Voltage



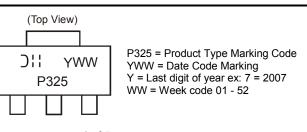


Ordering Information (Note 5)

Device		Packaging	Shipping
DPLS325E-1	3	SOT-223	2500/Tape & Reel

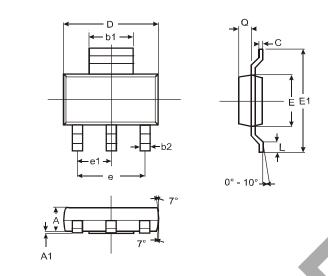
Notes: 5. For packaging details, please go to our website at http://www.diodes.com/ap02007.pdf.

Marking Information



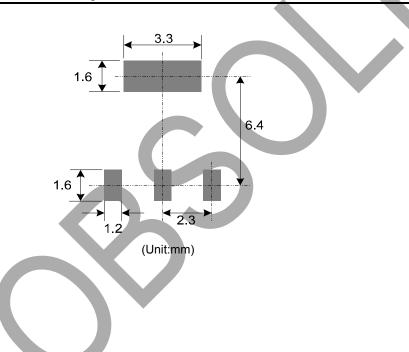


Package Outline Dimensions



SOT-223							
Dim	Min	Мах	Тур				
Α	1.55	1.65	1.60				
A1	0.010	0.15	0.05				
b1	2.90	3.10	3.00				
b2	0.60	0.80	0.70				
С	0.20	0.30	0.25				
D	6.45	6.55	6.50	Þ			
E	3.45	3.55	3.50				
E1	6.90	7.10	7.00				
e	-	-	4.60				
e1		_	2.30				
L	0.85	1.05	0.95				
Q	0.84	0.94	0.89				
All Dimensions in mm							

Suggested Pad Layout





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