Electrical Characteristics @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
OFF CHARACTERISTICS (Note 5)					
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	-350	—	V	I_C = -100μA, I_E = 0
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	-350	—	V	I_C = -1.0mA, I_B = 0
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	-5.0	—	V	I_E = -10μA, I_C = 0
Collector Cutoff Current	I_{CBO}	—	-50	nA	V_{CB} = -200V, I_E = 0
Collector Cutoff Current	I_{EBO}	—	-50	nA	V_{CE} = -3.0V, I_C = 0
ON CHARACTERISTICS (Note 5)					
DC Current Gain	h_{FE}	20 30 30 20 15	— — 200 200 —	—	I_C = -1.0mA, V_{CE} = -10V I_C = -10mA, V_{CE} = -10V I_C = -30mA, V_{CE} = -10V I_C = -50mA, V_{CE} = -10V I_C = -100mA, V_{CE} = -10V
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	— — — —	-0.30 -0.35 -0.50 -1.0	V	I_C = -10mA, I_B = -1.0mA I_C = -20mA, I_B = -2.0mA I_C = -30mA, I_B = -3.0mA I_C = -50mA, I_B = -5.0mA
Base-Emitter Saturation Voltage	$V_{BE(SAT)}$	— — —	-0.75 -0.85 -0.90	V	I_C = -10mA, I_B = -1.0mA I_C = -20mA, I_B = -2.0mA I_C = -30mA, I_B = -3.0mA
Base-Emitter On Voltage	$V_{BE(ON)}$	—	-2.0	V	I_C = -100mA, V_{CE} = -10V
SMALL SIGNAL CHARACTERISTICS					
Output Capacitance	C_{obo}	—	7.0	pF	V_{CB} = -20V, f = 1.0MHz, I_E = 0
Transition Frequency	f_T	50	—	MHz	V_{CE} = -10V, I_C = -20mA

Notes: 5. Short duration pulse test used to minimize self-heating effect.

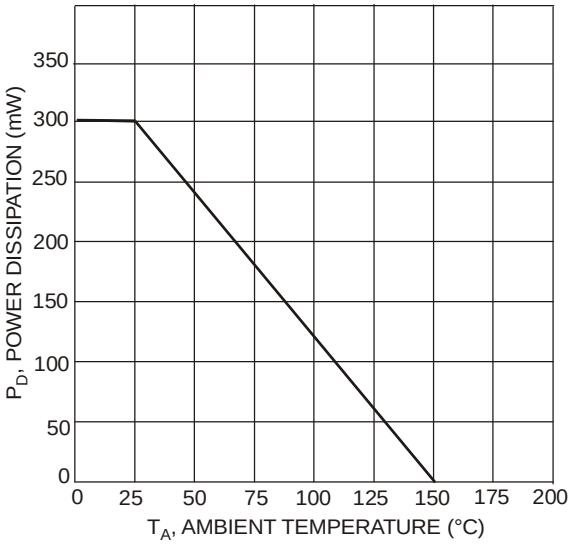


Fig. 1, Max Power Dissipation vs. Ambient Temperature

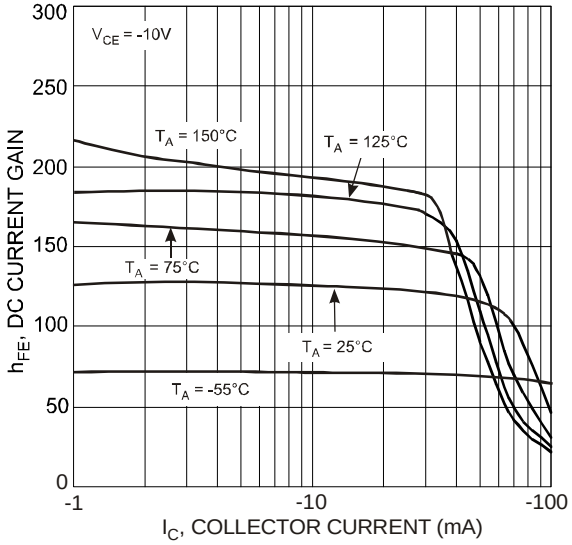


Fig. 2, DC Current Gain vs. Collector Current

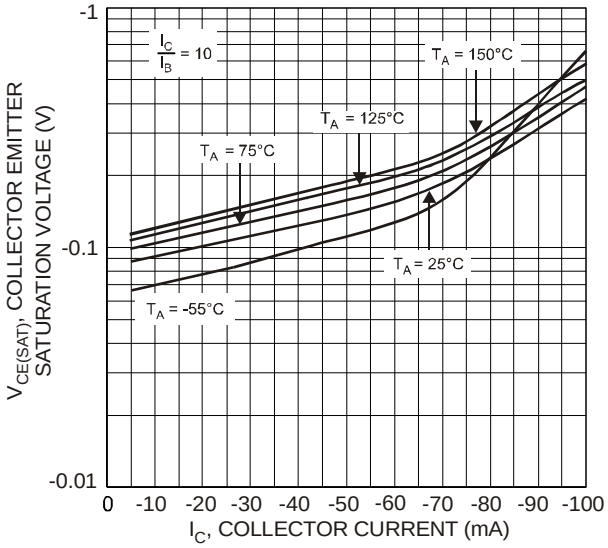


Fig. 3, Collector-Emitter Saturation Voltage vs. Collector Current

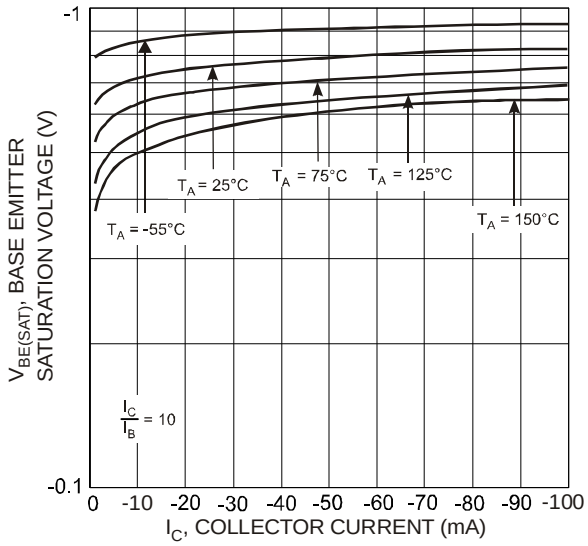


Fig. 4, Base Emitter Saturation Voltage vs. Collector Current

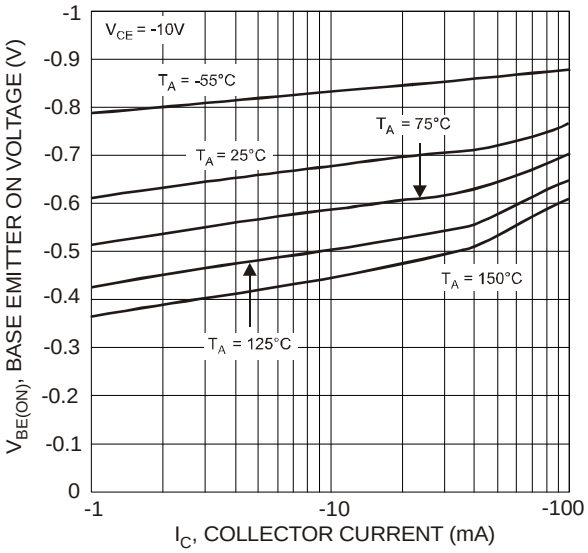


Fig. 5, Base-Emitter On Voltage vs. Collector Current

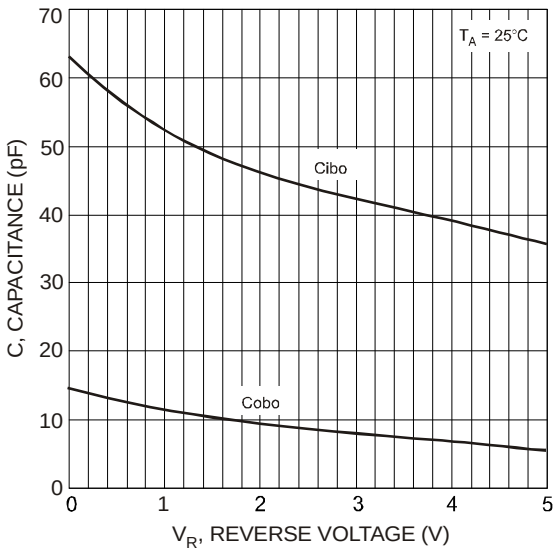


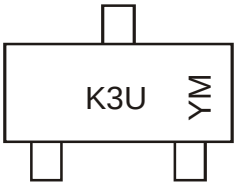
Fig. 6, Capacitance vs. Reverse Voltage

Ordering Information (Note 6)

Device	Packaging	Shipping
DP350T05-7	SOT-23	3000/Tape & Reel

Notes: 6. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



K3U = Product Type Marking Code
YM = Date Code Marking
Y = Year ex: S = 2005
M = Month ex: 9 = September

Date Code Key

Year	2005	2006	2007	2008	2009	2010	2011	2012
Code	S	T	U	V	W	X	Y	Z

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	O	N	D

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