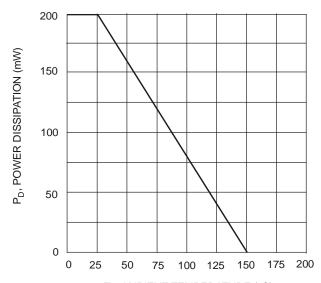


Electrical Characteristics @TA = 25°C unless otherwise specified

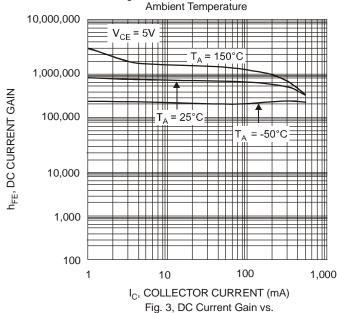
Characteristic	Symbol	Min	Max	Unit	Test Condition						
OFF CHARACTERISTICS (Note 5)											
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	-30	_	V	$I_C = -100 \mu A V_{BE} = 0 V$						
Collector Cutoff Current	I _{CBO}	_	-100	nA	$V_{CB} = -30V, I_{E} = 0$						
Emitter Cutoff Current	I _{EBO}	_	-100	nA	$V_{EB} = -10V, I_{C} = 0$						
ON CHARACTERISTICS (Note 5)											
MMS MMS	STA63 STA64 STA63 STA64	5,000 10,000 10,000 20,000	_	_	I _C = -10mA, V _{CE} = -5.0V I _C = -10mA, V _{CE} = -5.0V I _C = -100mA, V _{CE} = -5.0V I _C = -100mA, V _{CE} = -5.0V						
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	_	-1.5	V	$I_C = -100 \text{mA}, I_B = -100 \mu \text{A}$						
Base- Emitter Saturation Voltage	V _{BE(SAT)}	_	-2.0	V	$I_C = -100 \text{mA}, V_{CE} = -5.0 \text{V}$						
SMALL SIGNAL CHARACTERISTICS				•							
Current Gain-Bandwidth Product	f _T	125	_	MHz	$V_{CE} = -5.0V$, $I_{C} = -10mA$, $f = 100MHz$						

Notes:

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



T_A, AMBIENT TEMPERATURE (°C) Fig. 1, Max Power Dissipation vs.



Collector Current

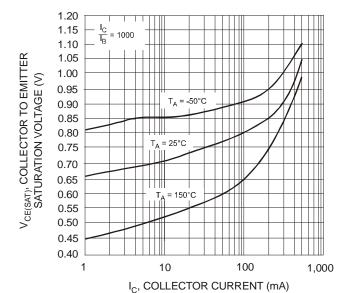
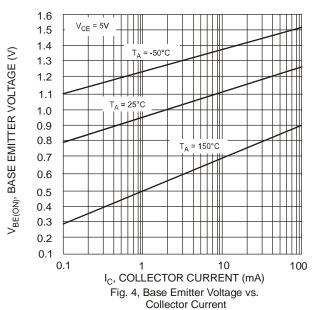
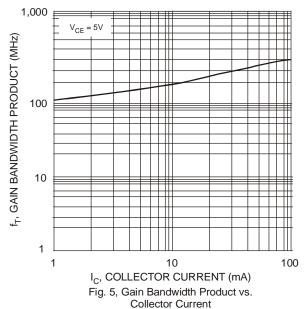


Fig. 2, Collector Emitter Saturation Voltage vs. Collector Current





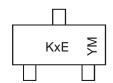


Ordering Information (Note 4 & 6)

Device	Packaging	Shipping				
MMSTA63-7-F	SOT-323	3000/Tape & Reel				
MMSTA64-7-F	SOT-323	3000/Tape & Reel				

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

Marking Information



KxE = Product Type Marking Code, e.g. K2E = MMSTA63

YM = Date Code Marking

Y = Year ex: N = 2002

M = Month ex: 9 = September

Date Code Key

zato codo noj																
	Year	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
	Code	J	К	L	М	Ν	Р	R	S	Т	U	V	W	Х	Υ	Z

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	N	D

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