Notes : 1. Alumina=0.4*0.3*0.024in.99.5% alumina
2. " Fully ROHS Compliant ", "100% Sn plating (Pb-free)"

Rve.A_Aug,2017

ELECTRICAL CHARACTERISTICS (@TA=25°C unless otherwise noted)

Chatacteristic	Symbol	Min	Max	Unit
OFF CHARACTERISTICS				
Collector-Emitter Breakdown Voltage(1) (I_C= -10 mAdc, I_B= 0)	$V_{(BR)CEO}$	-60	-	Vdc
Collector-Base Breakdown Voltage (I_C= -10uAdc, I_E= 0)	$V_{(BR)CBO}$	-60	-	Vdc
Emitter-Base Breakdown Voltage (I_E= -10uAdc, I_C= 0)	$V_{(BR)EBO}$	-5.0	-	Vdc
Collector Cutoff Current (V_{CE}= -30Vdc, $V_{BE(off)}$= -5.0Vdc)	I_{CEX}	-	-50	nAdc
Collector Cutoff Current (V_{CB}= -50Vdc, I_E= 0)	I_{CBO}	-	-0.02	uAdc
(V_{CB}= -50Vdc, I_E= 0, TA= 125°C)		-	-20	
Base Current (V_{CE}= -30Vdc, $V_{EB(off)}$= -0.5Vdc)	I_B	-	-50	nAdc
ON CHARACTERISTICS				
DC Current Gain (I_C= -0.1mAdc, V_{CE}= -10Vdc)	h_{FE}	75	-	-
(I_C= -1.0mAdc, V_{CE}= -10Vdc)		100	-	
(I_C= -10mAdc, V_{CE}= -10Vdc)		100	-	
(I_C= -150mAdc, V_{CE}= -10Vdc)(1)		100	300	
(I_C= -500mAdc, V_{CE}= -10Vdc)(1)		50	-	
Collector-Emitter Saturation Voltage (1) (I_C= -150mAdc, I_B= -15mAdc)	$V_{CE(sat)}$	-	-0.4	Vdc
(I_C= -500mAdc, I_B= -50mAdc)		-	-1.6	
Base-Emitter Saturation Voltage (1) (I_C= -150mAdc, I_B= -15mAdc)	$V_{BE(sat)}$	-	-1.3	Vdc
(I_C= -500mAdc, I_B= -50mAdc)		-	-2.6	
SMALL-SIGNAL CHARACTERISTICS				
Current-Gain-Bandwidth Product (1)(2) (I_C= -50mAdc, V_{CE}= -20Vdc, f= 100MHz)	f_T	200	-	MHz
Output Capacitance (V_{CB}= -10Vdc, I_E= 0, f= 1.0MHz)	C_{obo}	-	8.0	pF
Input Impedance (V_{EB}= -2.0Vdc, I_C= 0, f= 1.0MHz)	C_{ibo}	-	30	pF
SWITCHING CHARACTERISTICS				
Turn-On Time	(V_{CC}= -30Vdc ,I_C= -150mAdc, I_{B1}= -15mAdc)	t_{on}	-	45	ns
Delay Time		t_d	-	10	
Rise Time		t_r	–	40	
Turn-Off Time	(V_{CC}= -6.0Vdc, I_C= -150mAdc, I_{B1}= I_{B2}= -15mAdc)	t_{off}	-	100	ns
Storage Time		t_s	-	80	
Fall Time		t_f	-	30	

NOTES : 1. Pulse Test: Pulse Width≤300ms,Duty Cycle≤2.0%

2. f_T is defined as the frequency at which $|h_{FE}|$ extrapolates to unity

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