



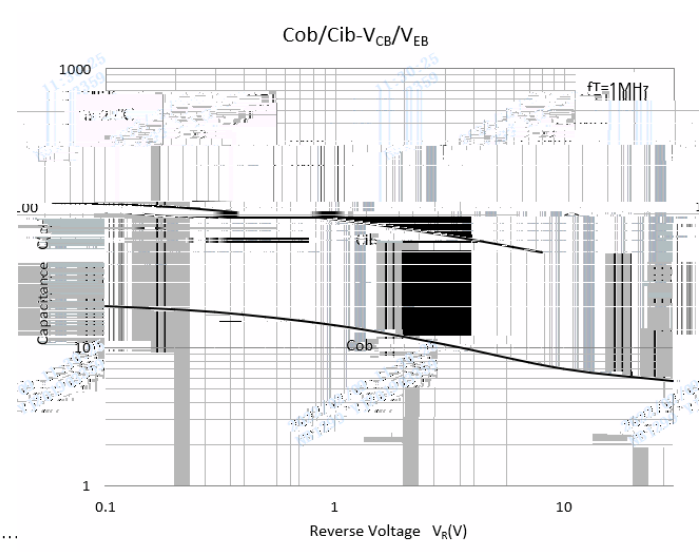
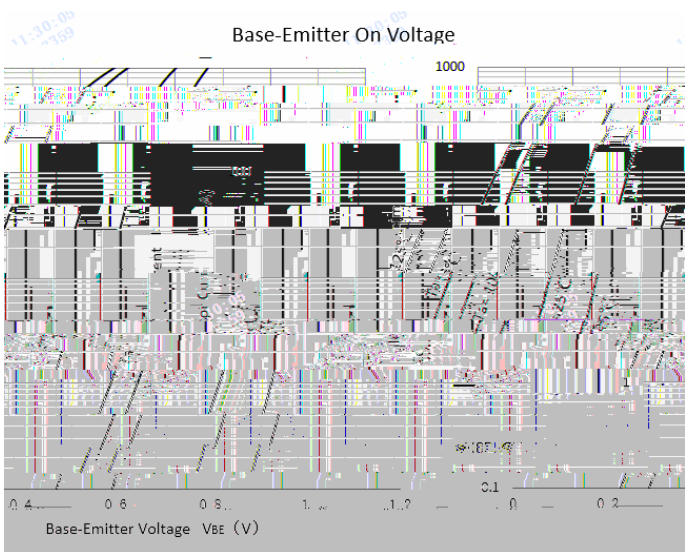
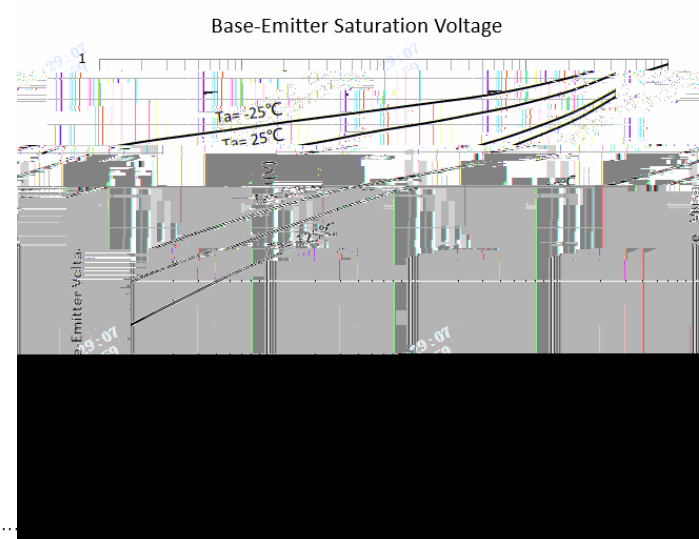
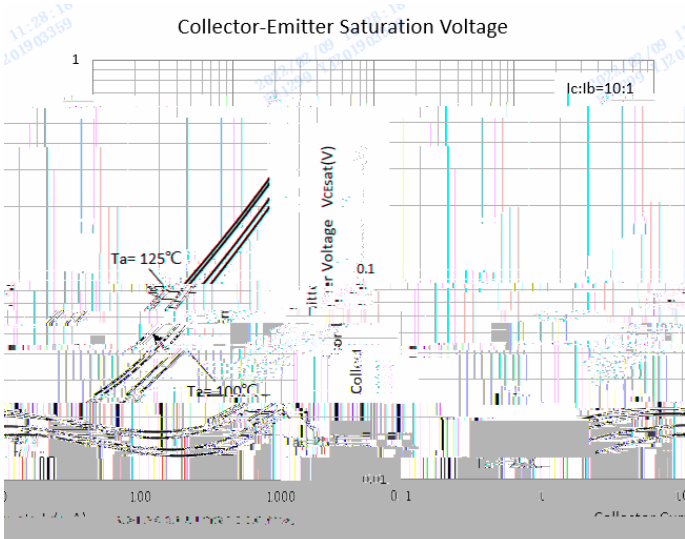
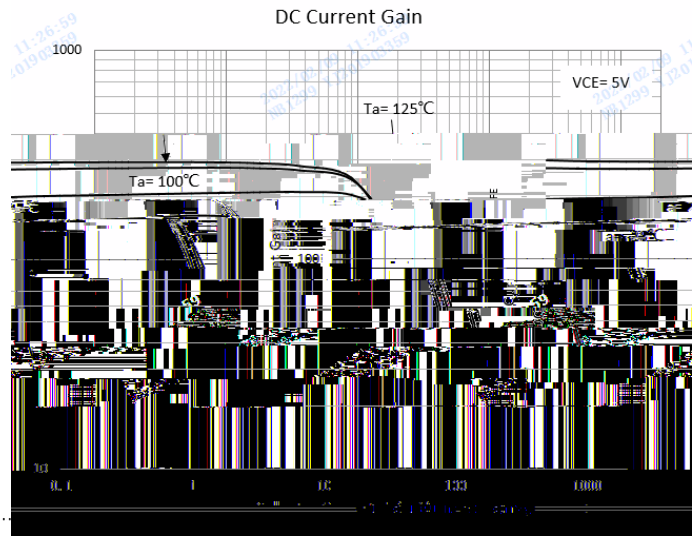
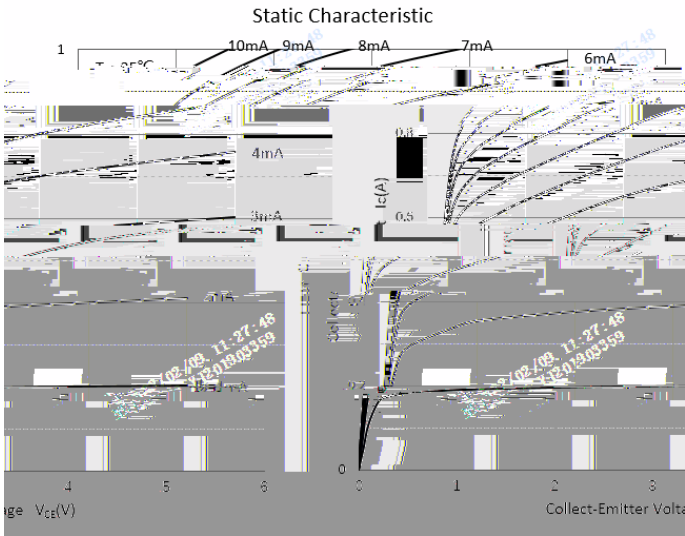


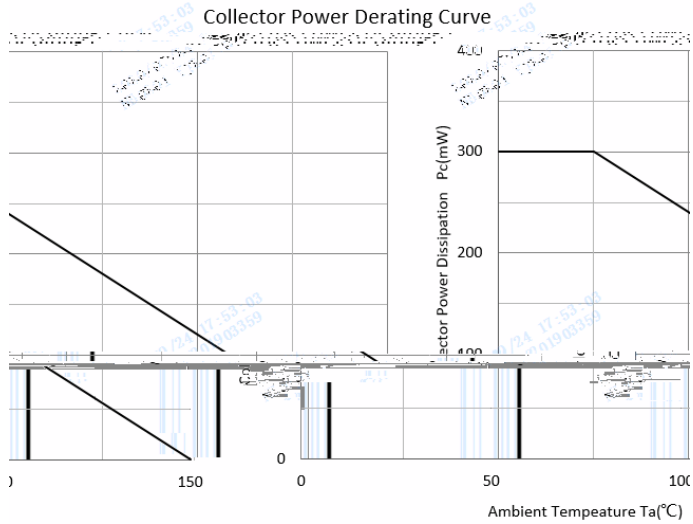
(Ta=25 Unless otherwise specified)

Collector-Base Voltage	$V_{CBO}$	V	$I_C=100\mu A, I_E=0$	80
Collector-Emitter Voltage	$V_{CEO}$	V	$I_C=10mA, I_B=0$	60
Emitter-Base Voltage	$V_{EBO}$	V	$I_E=100\mu A, I_C=0$	5
Collector Current	$I_C$	A		1
Collector Power Dissipation	$P_C$	mW		300
Thermal Resistance From Junction to Ambient	$R_{JA}$			417
Operation Junction Temperature	$T_J$			150
Storage Temperature	$T_{STG}$			-55 to +150

Ta=25 Unless otherwise specified

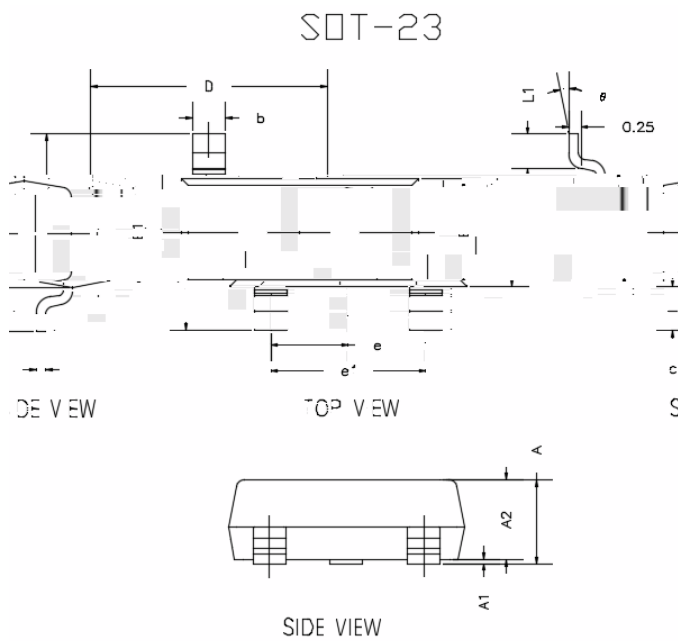
Collector-base breakdown voltage	$V_{(BR)CBO}$	V	$I_C=100\mu A, I_E=0$	80		
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	V	$I_C=10mA, I_B=0$	60		
Emitter-base breakdown voltage	$V_{(BR)EBO}$	V	$I_E=100\mu A, I_C=0$	5		
Collector-Base cut-off current	$I_{CBO}$	$\mu A$	$V_{CB}=60V, I_E=0$			0.1
Emitter-Base cut-off current	$I_{EBO}$	$\mu A$	$V_{EB}=4V, I_C=0$			0.1
DC current gain	$h_{FE1}$		$V_{CE}=5V, I_C=1mA$	100		
	$h_{FE2}$		$V_{CE}=5V, I_C=500mA$	100		300
	$h_{FE3}$		$V_{CE}=5V, I_C=1A$	80		
	$h_{FE4}$		$V_{CE}=5V, I_C=2A$	30		
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	$I_C=500mA, I_B=50mA$			0.25
		V	$I_C=1A, I_B=100mA$			0.5
Base-emitter saturation voltage	$V_{BE(sat)}$	V	$I_C=1A, I_B=100mA$			1.1
Base-emitter voltage	$V_{BE}$	V	$V_{CE}=5V, I_C=1A$			1
Transition frequency	$f_T$	MHz	$V_{CE}=10V, I_C=50mA, f=100MHz$	150		
Collector-Base Output Capacitance	$C_{ob}$	pF	$V_{CB}=10V, I_E=0, f=1MHz$			10





(Example)

Part Number	Package	Approximate Pitch	Quantity	Quantity	Quantity	Quantity
FMMT491	F2	Approximate 0.008	3000	30000	120000	7" reel



DIM	DIMENSIONS			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.035	0.045	0.900	1.150
A1	0.000	0.004	0.000	0.100
A2	0.035	0.041	0.900	1.050
b	0.012	0.020	0.300	0.500
c	0.004	0.008	0.100	0.200
D	0.110	0.118	2.800	3.000
E	0.047	0.055	1.200	1.400
E1	0.089	0.100	2.250	2.550
e	0.037TYP		0.95TYP	
e1	0.071	0.079	1.800	2.000
L	0.022TYP		0.55TYP	
L1	0.012	0.020	0.300	0.500
$\theta$	0°	8°	0°	8°





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