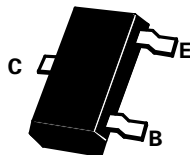


FMMT549
FMMT549A

FEATURES

- | | | |
|-----------------------|----------|-----------|
| COMPLEMENTARY TYPES – | FMMT549 | - FMMT449 |
| | FMMT549A | - N/A |
| PARTMARKING DETAIL – | FMMT549 | - 549 |
| | FMMT549A | - 59A |



PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CBO}	-35	V
Collector-Emitter Voltage	V_{CEO}	-30	V
Emitter-Base Voltage	V_{EBO}	-5	V
Peak Pulse Current	I_{CM}	-2	A
Continuous Collector Current	I_C	-1	A
Base Current	I_B	-200	mA
Power Dissipation: at $T_{amb}=25^{\circ}C$	P_{tot}	500	mW
Operating and Storage Temperature Range	$T_j; T_{std}$	-55 to +150	$^{\circ}C$

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Breakdown Voltages	$V_{(BR)CBO}$	-35			V	$I_C = -100\mu A$
	$V_{(BR)CEO}$	-30			V	$I_C = -10mA$ *
	$V_{(BR)EBO}$	-5			V	$I_E = -100\mu A$
Cut-Off Currents	I_{CBO}			-0.1 -10	μA μA	$V_{CB} = -30V$ $V_{CB} = -30V, T_{amb} = 100^\circ C$
	I_{EBO}			-0.1	μA	$V_{EB} = -4V$
Saturation Voltages	$V_{CE(sat)}$		-0.25 -0.50	-0.50	V	$I_C = -1A, I_B = -100mA$ *
				-0.75	V	$I_C = -2A, I_B = -200mA$ *
				-0.30	V	$I_C = -100mA, I_B = -1mA$ *
	$V_{BE(sat)}$		-0.9	-1.25	V	$I_C = -1A, I_B = -100mA$ *
Base Emitter Turn-on Voltage	$V_{BE(on)}$		-0.85	-1	V	$I_C = -1A, V_{CE} = -2V$ *
Static Forward Current Transfer Ratio	h_{FE}	70 80 40	200 130 80			$I_C = -50mA, V_{CE} = -2V$ *
						$I_C = -1A, V_{CE} = -2V$ *
						$I_C = -2A, V_{CE} = -2V$ *
	FMMT549	100	160	300		$I_C = -500mA, V_{CE} = -2V$ *
	FMMT549A	150	200	500		$I_C = -500mA, V_{CE} = -2V$ *
Transition Frequency	f_T	100			MHz	$I_C = -100mA, V_{CE} = -5V$ $f = 100MHz$
Output Capacitance	C_{obo}			25	pF	$V_{CB} = -10V, f = 1MHz$
Switching Times	t_{on}		50		ns	$I_C = -500mA, V_{CC} = -10V$ $I_{B1} = I_{B2} = -50mA$
	t_{off}		300		ns	

*Measured under pulsed conditions. Pulse width=300 μ s. Duty cycle $\leq$ 2%

FMMT549 **FMMT549A**

TYPICAL CHARACTERISTICS

