

6367254 MOTOROLA SC (XSTRS/R F)

96D 80695 D

T-33-13

ELECTRICAL CHARACTERISTICS ($T_C = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Min.	Max.	Unit
OFF CHARACTERISTICS (1)				
Collector-Emitter Sustaining Voltage ($I_C = 500\text{ mAdc}$, $I_B = 0$) $L = 10\text{ mH}$	$V_{CE(sus)}$	700		Vdc
Collector Cutoff Current at Reverse Bias: ($V_{CE} = 1000\text{ V}$, $I_E = 0$) ($V_{CE} = 1500\text{ V}$, $I_E = 0$)	I_{CBO}		0.02 1.0	mAdc
Collector-Emitter Cutoff Current ($V_{CE} = 1500\text{ V}$, $V_{BE} = -2\text{ V}$)	I_{CEX}		1.0	mAdc
Emitter-Base Reverse Voltage ($I_E = 100\text{ mA}$)	V_{EBO}	5		V
Emitter Cutoff Current ($V_{EB} = 4\text{ V}$)	I_{EBO}		10	mAdc

ON CHARACTERISTICS (1)

DC Current Gain ($I_C = 4.5\text{ Adc}$, $V_{CE} = 5\text{ V}$)	h_{FE}	3.0		—
Collector-Emitter Saturation Voltage ($I_C = 4.5\text{ Adc}$, $I_B = 2\text{ A}$)	$V_{CE(sat)}$		1.0	Vdc
Base-Emitter On Voltage ($I_C = 4.5\text{ Adc}$, $V_{CE} = 2\text{ A}$)	$V_{BE(on)}$		1.3	Vdc

SWITCHING CHARACTERISTICS (Resistive Load)

	($V_{CC} = 100\text{ Vdc}$, $I_C = 4.5\text{ A}$, $I_{B1} = 1.5\text{ A}$, $I_{B2} = 1.5\text{ A}$)	—	—	μs
Storage Time			1.2	
Fall Time			1.0	



(1) Pulse Test: Pulse Width = $300\ \mu\text{s}$, Duty Cycle $\leq 2\%$



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