MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	VCEO	300	Vdc
Collector-Base Voltage	Vсво	3,00	Vdc
Emitter-Base Voltage	VEBO	5.0	Vdc
Collector Current — Continuous	^I C	500	mAdc
Total Device Dissipation @ T _A = 25°C Derate above 25°C	PD	1.0 8.0	Watt mW/℃
Total Device Dissipation @ T _C = 25°C Derate above 25°C	PD	2.5 20	Watts mW/°C
Operating and Storage Junction Temperature Range	Tj, T _{stg}	-55 to +150	°C

THERMAL CHARACTERISTICS					
Characteristic	Symbol	Max	Unit		
Thermal Resistance, Junction to Case	R _{ØJC}	50	°C/W		
Thermal Resistance, Junction to Ambient	RejA	125	°C/W		

MPSW60

CASE 29-03, STYLE 1 TO-92 (TO-226AE)

HIGH VOLTAGE

PNP SILICON

Refer to MPSW92 for graphs.

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted.)

Characteristic	Symbol	Min	Max	Unit
OFF CHARACTERISTICS				
Collector-Emitter Breakdown Voltage(1) (I _C = 1.0 mAdc, I _B = 0)	V(BR)CEO	300		Vdc
Collector-Base Breakdown Voltage ($I_C = 100 \ \mu Adc, I_E = 0$)	V(BR)CBO	300		Vdc
Emitter-Base Breakdown Voltage (I _E = 10.0 µAdc, I _C = 0)	V(BR)EBO	5.0	-	Vdc
Collector Cutoff Current ($V_{CB} = 200 \text{ Vdc}, I_E = 0$)	Ісво	_	0.2	μAdc
Emitter Cutoff Current ($V_{BE} = 3.0 \text{ Vdc}, I_{C} = 0$)	^I EBO	_	0.1	μAdc
ON CHARACTERISTICS(1)				
	hfe	25 30 25		
Collector-Emitter Saturation Voltage (Ic = 20 mAdc, Ig = 2.0 mAdc)	V _{CE(sat)}	_	0.75	Vdc
Base-Emitter On Voltage (I _C = 20 mAdc, V _{CE} = 10 Vdc)	V _{BE(on)}		0.9	Vdc
SMALL-SIGNAL CHARACTERISTICS			×	
Current-Gain — Bandwidth Product (I _C = 10 mAdc, V _{CE} = 20 Vdc, f = 20 MHz)	fT	60		MHz
Collector-Base Capacitance (V _{CB} = 20 Vdc, I _E = 0, f = 10 MHz)	C _{cb}	_	8.0	pF

(1) Pulse Test: Pulse Width \leq 300 μ s, Duty Cycle \leq 2.0%.