

TECHNICAL DATA PART NUMBER: SCP-5144, ENG. -

3-Phase Bridge -- IGBT Module 600V, 100A

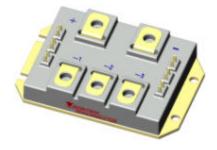
Features:

• Multiple Layer, Moisture and Contamination Resistant

Construction

• Increased Creepage and Clearance Distances for High Altitude Operation

- Operation at Temperature Extremes
- Internal Layout with Minimized Stray Inductances
- High Frequency Switching



Maximum Ratings

All ratings are at $T_A = 25^{\circ}C$ unless otherwise specified.

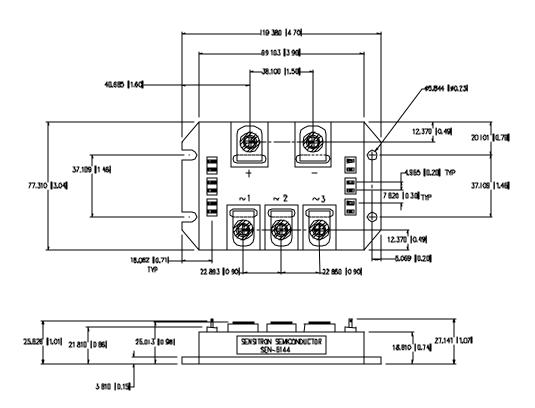
Symbol	Test Conditions	Value	Units
V _{ces}	Tj = 150C	600	V
I _c	Tc = 25C / 80C	100 / 70	А
I _{cpulse}	Tc = 25C / 80C F= 10kHz, D=.05, Vce = 300V	200 / 140	A
V _{GE}		+ / - 20	V
Hipot	1500Vrms, 50Hz / 60Hz, 1 min.	10	uA
Tj		-55 to 150	°C
Diode			
I _F	Tc = 25C / 80C	100 / 70	А
I _{FM}	Tc = 25C / 80C F= 10kHz, D=.05	200 / 140	A

Electrical Characteristics All ratings are at $T_A = 25^{\circ}C$ unless otherwise specified.

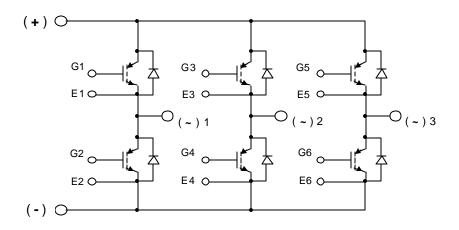
Symbol	Test Conditions	Min.	Тур.	Max.	Units		
V _{(BR)ces}	Vge = 0V,	600	-	-	V		
V _{CE(sat)}	Vge = 15V, Ic = 100A	-	2.0	-	V		
V _{GE(th)}	Ic = 1mA, Vge = Vce	-	5.5	-	V		
ICES	Vce = 600V, Vge = 0V	-		-	mA		
I _{GES}	Vce = 0V, $Vge = 20V$	-		250	nA		
C _{iss}	Vce = 25V	-	5	-	nF		
C _{oss}	Vge = 0V	-	1.5	-	nF		
C _{rss}	f = 1MHz	-	.4	-	nF		
t _{d(on)}	Vc = 300V	-	50	-	ns		
tr	Ic = 100A	-	20	-	ns		
t _{d(off)}	Vge = + / - 15V	-	150	-	ns		
t _f	Rg = 2.7 Ohm	-	30	-	ns		
Diode							
V _F	I _F = 100A, F= 10kHz, D=.05		1.6		V		
t _{rr}	Vr = 300V		200		ns		

SENSITRON TECHNICAL DATA PART NUMBER: SCP-5144, ENG. -

MECHANICAL DIMENSIONS: In Inches / mm



SCHEMATIC





TECHNICAL DATA

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