

Technical Information			
Electrical properties			
Repetitive peak reverse voltage	$T_{vj} = -40^{\circ}\text{C} \dots T_{vj \text{ max}}$	VRRM	1200,1400,1600 ,1800 V
Non-repetitive peak reverse voltage	$T_{vj} = +25^{\circ}\text{C} \dots T_{vj \text{ max}}$	VRSM	1300,1500,1700 ,1900 V
RMS forward current (per chip)		IFRMSM	120 A
Output current	$T_c = 100^{\circ}\text{C}$ $T_c = 99^{\circ}\text{C}$ $T_A = 45^{\circ}\text{C}$ KM11 $T_A = 45^{\circ}\text{C}$ KM33 $T_A = 35^{\circ}\text{C}$ KM14 ($V_L=45\text{l/s}$) $T_A = 35^{\circ}\text{C}$ KM33 ($V_L=90\text{l/s}$)	Id	205 A 208 A 80 A 113 A 190 A 208 A
Surge forward current	$T_{vj} = 25^{\circ}\text{C}; t=10\text{ms}$ $T_{vj} = T_{vj \text{ max}}; t_p=10\text{ms}$	IFSM	1600 A 1375 A
I²t-value	$T_{vj} = 25^{\circ}\text{C}; t=10\text{ms}$ $T_{vj} = T_{vj \text{ max}}; t_p=10\text{ms}$	I²t	12800 A ² s 9450 A ² s
Forward voltage	$T_{vj} = T_{vj \text{ max}}; i_F=200\text{ A}$	V_F	Max. 1,47 V
Threshold voltage	$T_{vj} = T_{vj \text{ max}}$	V(TO)	0,75 V
Forward slope resistance	$T_{vj} = T_{vj \text{ max}}$	r_T	2,2 mΩ
Reverse current	$T_{vj} = T_{vj \text{ max}}; V_R = V_{RRM}$	i_R	Max. 10mA
Insulation test voltage	RMS, f = 50Hz, t = 1min RMS, f = 50Hz, t = 1sec	VISOL	3,0 kV 3,6 kV
Thermal resistance, junction to case	pro Modul / per module, Q = 120°rect pro Element / per chip, Q = 120°rect pro Modul / per module, DC pro Element / per chip, DC	R_{thjc}	max 0,098 °C/W max 0,590 °C/W max 0,078 °C/W max 0,470 °C/W
thermal resistance, case to heatsink	pro Modul / per module pro Element / per chip	R_{thck}	max 0,033 °C/W max 0,200 °C/W
Max. junction temperature		T_{vj max}	105°C
Operating temperature		T_{c op}	- 40...+150°C
Storage temperature		T_{stg}	- 40...+150°C
Mounting torque	Tolerance ±15%	M1	6 Nm
terminal connection torque	Tolerance +5% / -10%	M2	4Nm
Weight		G	220g
Creepage distance			12,5 mm
Vibration resistance	f = 50Hz		50 m/s ²

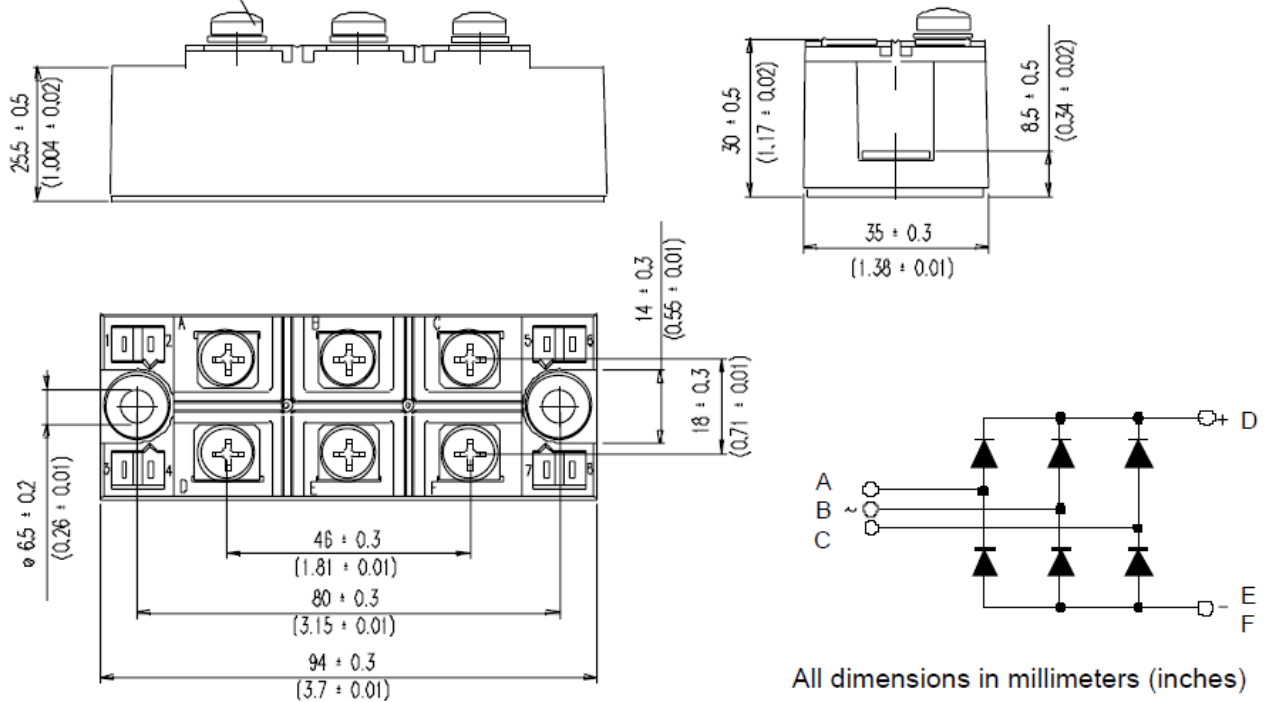
CAPITÓLIO Comércio Representação Importação e Exportação Ltda.

Al. dos Pamaris, 188 - Campo Belo - ☎04086.020 - S. Paulo - 📞(011) 5090-4500 📠(011)5543.0736
CGC. : 00.023.280 / 0001-53 I.E. : 114.102.283.115 E.mail : capitolio@capitoliosemic.com.br

Visite nosso SITE : www.capitoliosemic.com.br

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Screws M5 x 0.8 Length 10



All dimensions in millimeters (inches)