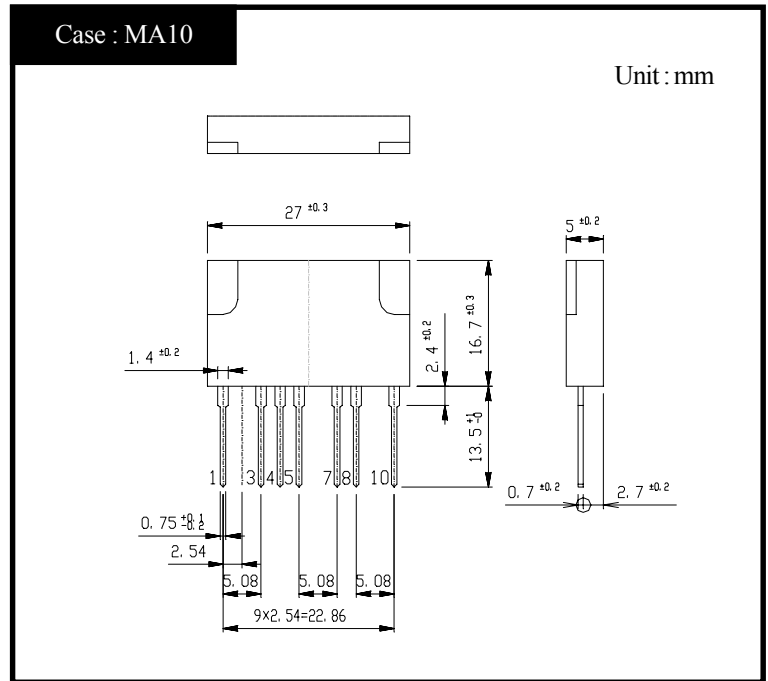


MJ2400

OUTLINE DIMENSIONS



RATINGS

● Absolute Maximum Ratings

Item	Symbol	Conditions	Ratings		Unit	
			Input Condition *1			
			AC100V	AC200V		
Storage Temperature	Tstg		-30~150		°C	
Junction Temperature	Tj		135	110	°C	
Maximum Reverse Voltage	V _{RM}	⑧-①,⑧-⑩,①-④,⑩-④,⑦-①,⑦-⑩	600		V	
Repetitive Peak Reverse Voltage	V _{RRM}	④-③ R _{GK} =1kΩ	200	400	V	
Non-repetitive Peak Reverse Voltage	V _{RSM}	④-③ R _{GK} =1kΩ	300	500	V	
Repetitive Off-state Voltage	V _{DRM}	③-④ R _{GK} =1kΩ	200	400	V	
Non-repetitive Off-state Voltage	V _{DSM}	③-④ R _{GK} =1kΩ	300	500	V	
Average Rectified Forward Current	I _O	Sine Wave 50Hz Resistance Load (⑧-③)	Heatsink			
			T _a =25°C	1.6	1.24	A
			T _c =106°C	3.4	-	A
		T _c =95°C	-	1.9	A	
Peak Surge Forward Current	I _{FSM}	Sine Wave 50Hz 1Cycle ①-⑩ (⑧-③)Short,⑤-④)Forward Bias)	80		A	
Peak Gate Forward Current	I _{FGM}	50HZ,duty ≤ 10%,⑤-④	0.7		A	
Critical Rate Of Rise On-state Voltage	di _T /dt	③-④	50		A/μs	
Dielectric Strength	V _{dis}	Terminals To Case AC 1 min	2		kV	

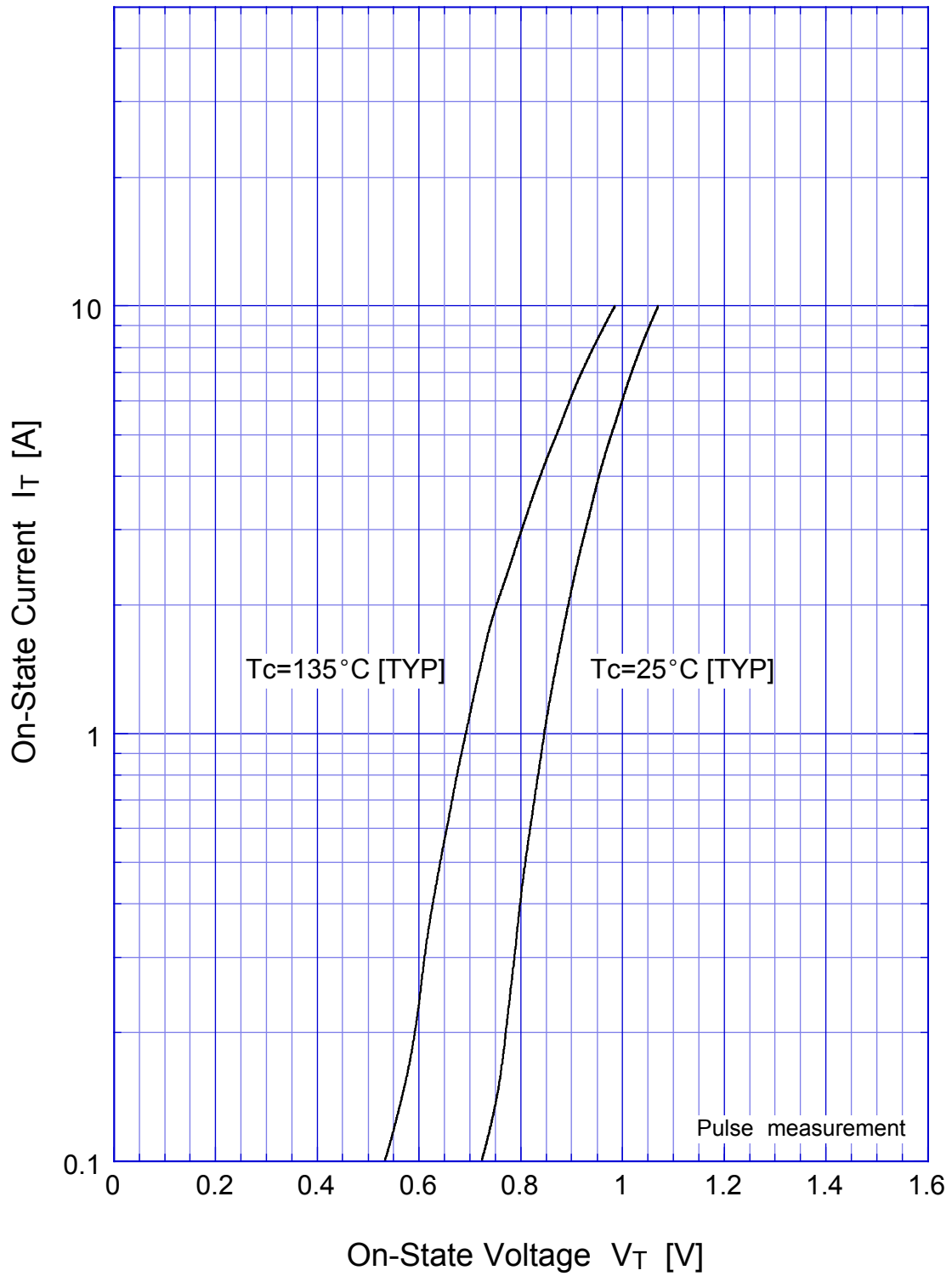
● Electrical Characteristics (T_c=25°C)

Item	Symbol	Conditions	Ratings		Unit
			Input Condition *1		
			AC100V	AC200V	
Di	Reverse Current	I _R	V _R =600V,⑧-①,⑧-⑩,①-④,⑩-④,⑦-①,⑦-⑩		μA
	Forward Voltage	V _F	I _F =2A,①-⑧,⑩-⑧,④-①,④-⑩,①-⑦,⑩-⑦		V
SCR	Repetitive Peak Reverse Current	I _{RRM}	V _{RR} =400V,④-③ R _{GK} =1kΩ		μA
	Off-state Current	I _{DRM}	V _{DR} =400V,③-④ R _{GK} =1kΩ		μA
	On-state Voltage	V _T	I _T =3.4A, ③-④ R _{GK} =1kΩ		V
	Gate-Trigger Current	I _{GT}	V _D =6V,R _i =20kΩ R _{GK} =1kΩ		mA
	Gate-Trigger Voltage	V _{GT}	V _D =6V,R _i =20kΩ R _{GK} =1kΩ		V
	Gate-Non-Trigger Voltage	V _{GD}	V _D =200V		V
Thermal Resistance	θ _{ja}	Junction to Ambient	MIN 27		°C/W
	θ _{jc}	Junction to Case	MIN 2.9		°C/W
	θ _{jL}	Junction to Lead	MIN 8		°C/W

Figure in ○=Terminal Sign

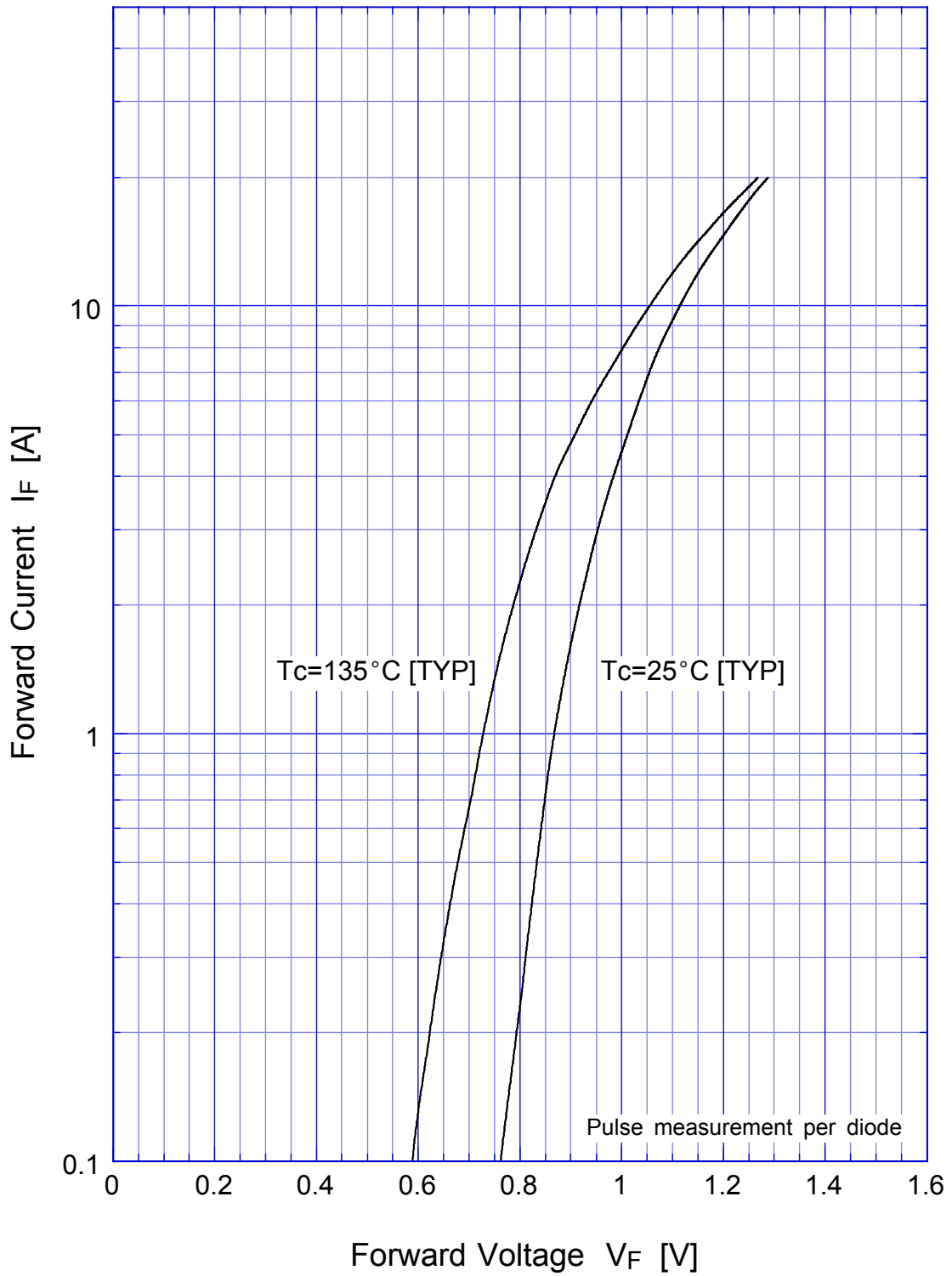
AC100V:90to132V AC200V:180to276V

MJ2400 Thyristor Forward Voltage

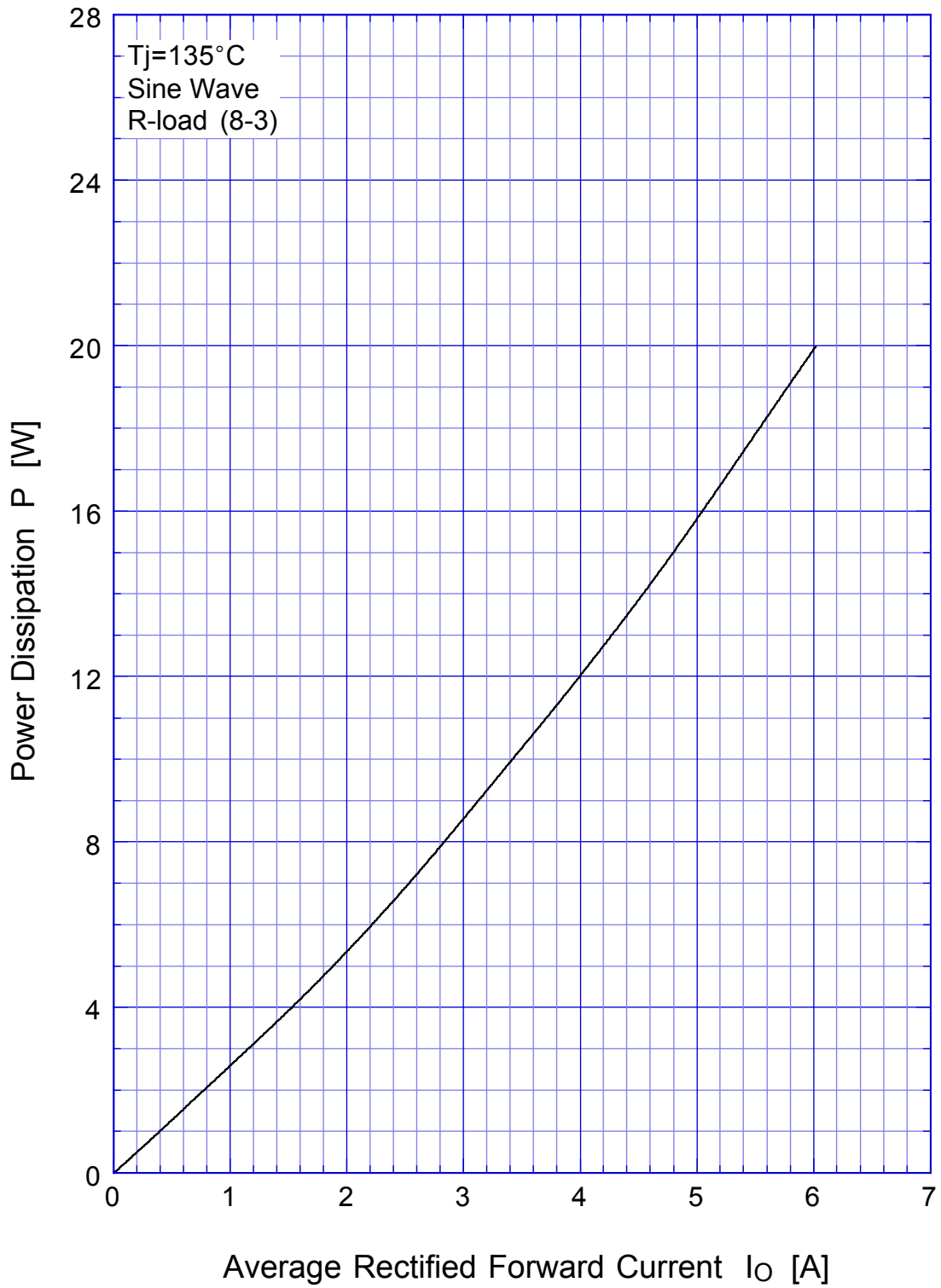


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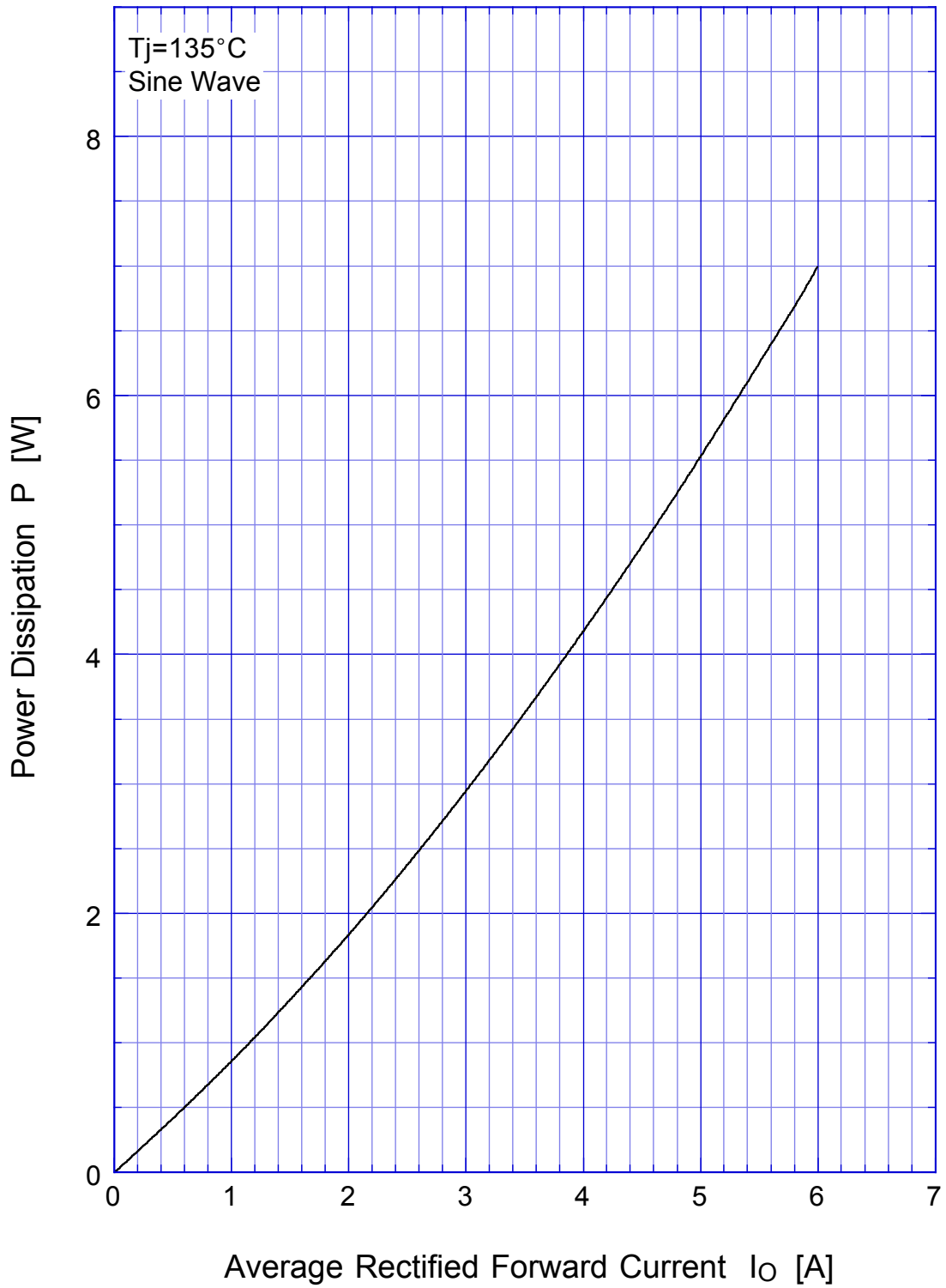
Diode Forward Voltage



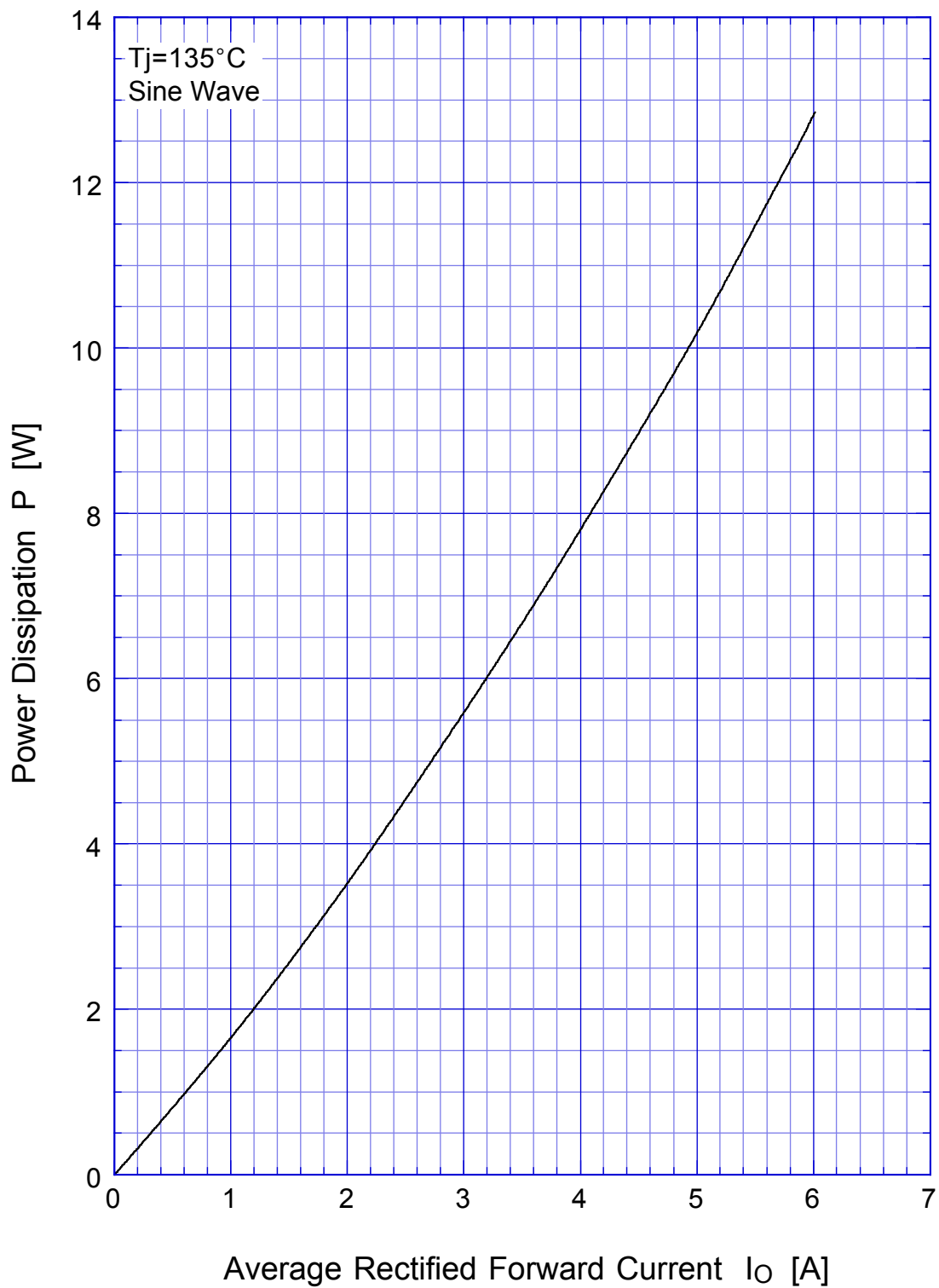
MJ2400 Total Forward Power Dissipation



MJ2400 Thyristor Forward Power Dissipation

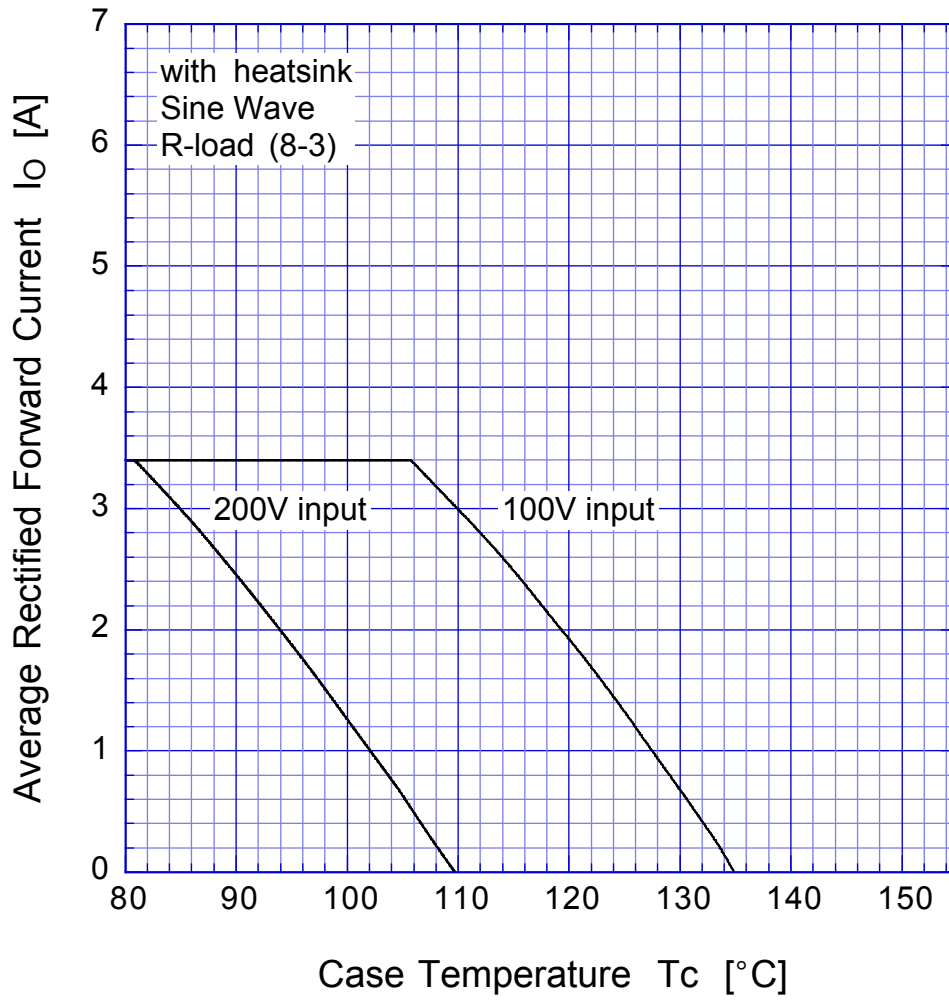


MJ2400 Bridge Diode Forward Power Dissipation



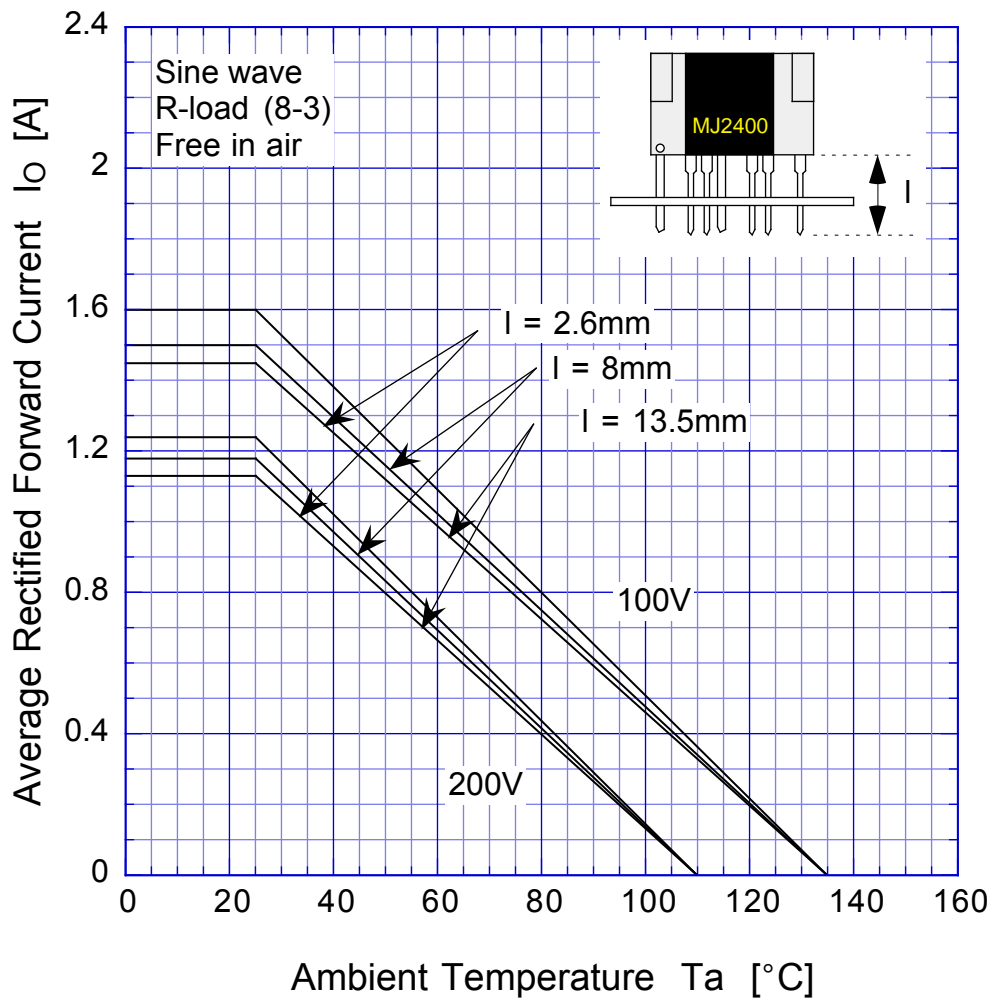
MJ2400

Derating Curve



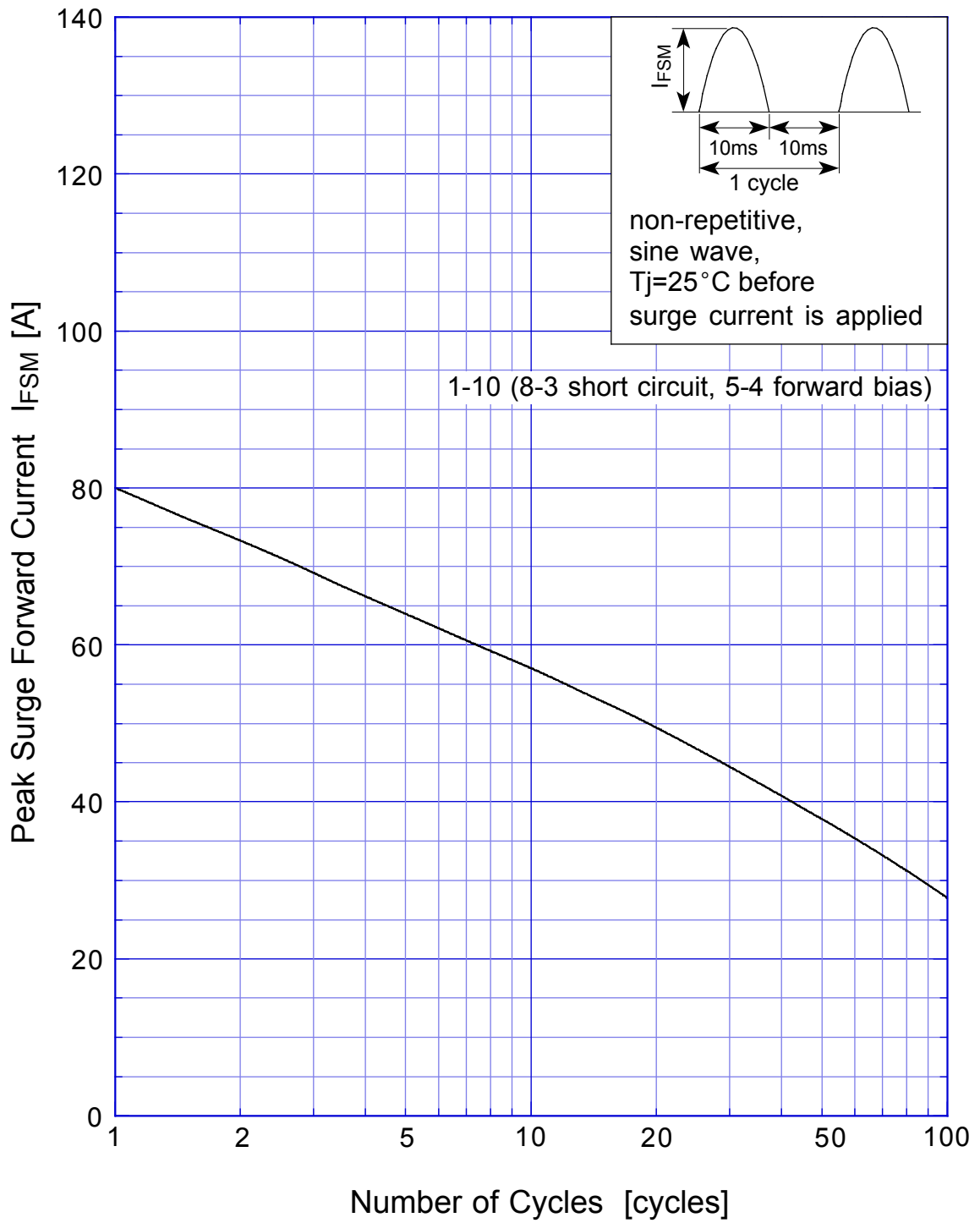
MJ2400

Derating Curve

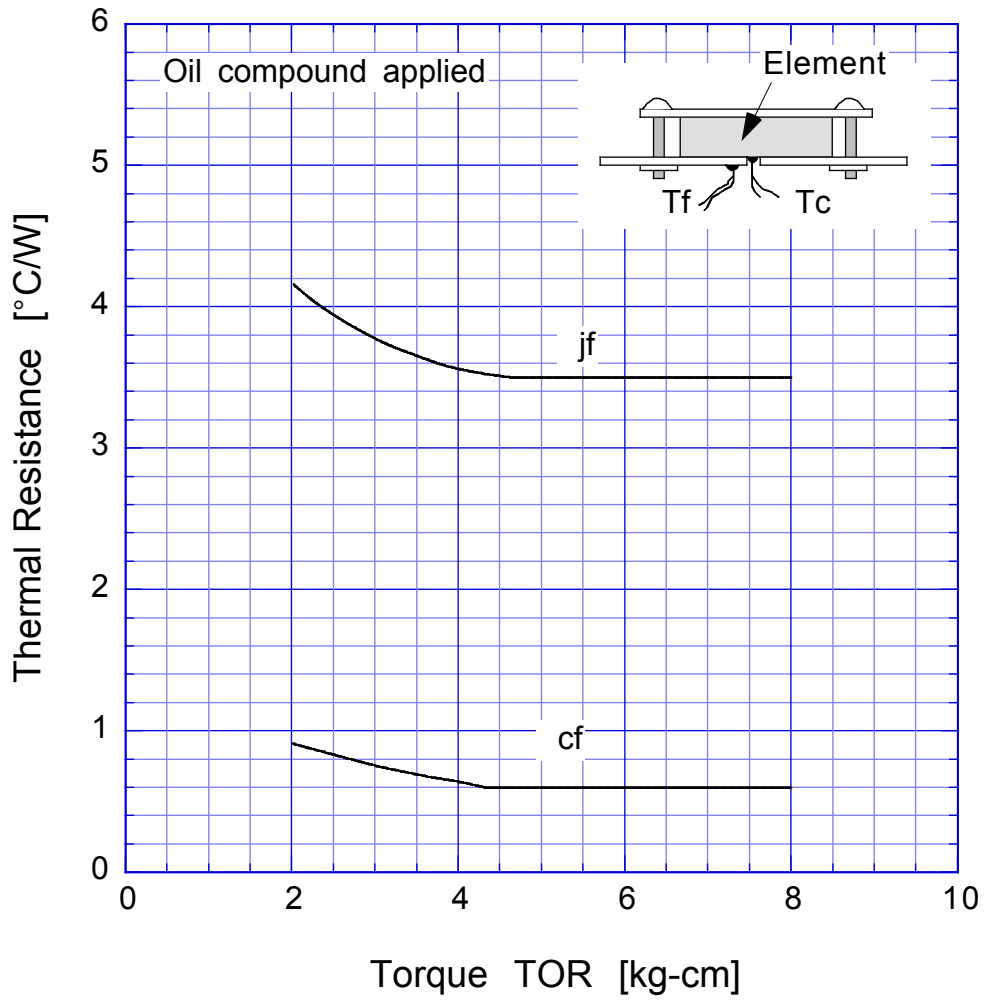


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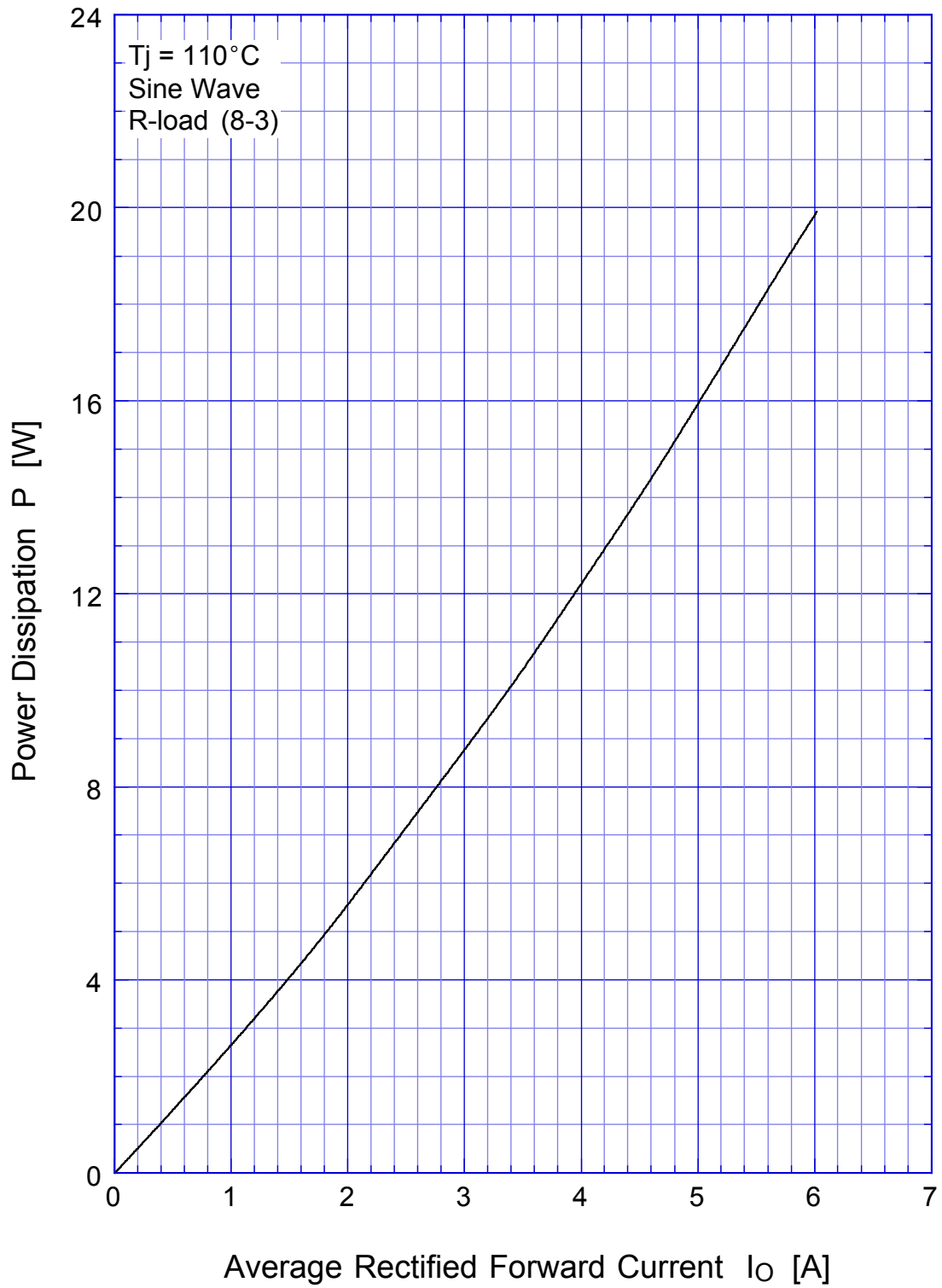
Peak Surge Forward Capability



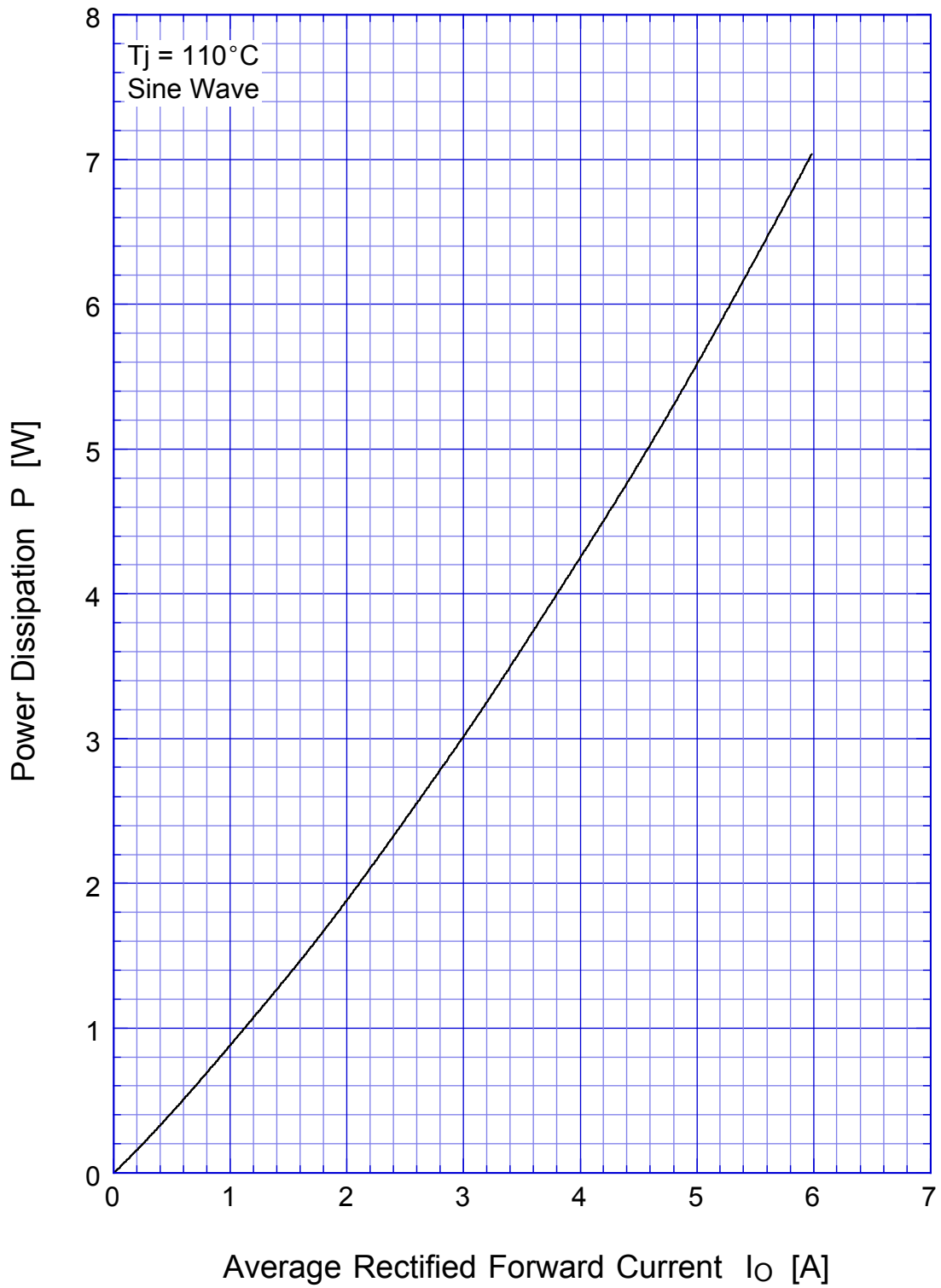
MJ2400 Torque - Thermal Resistance



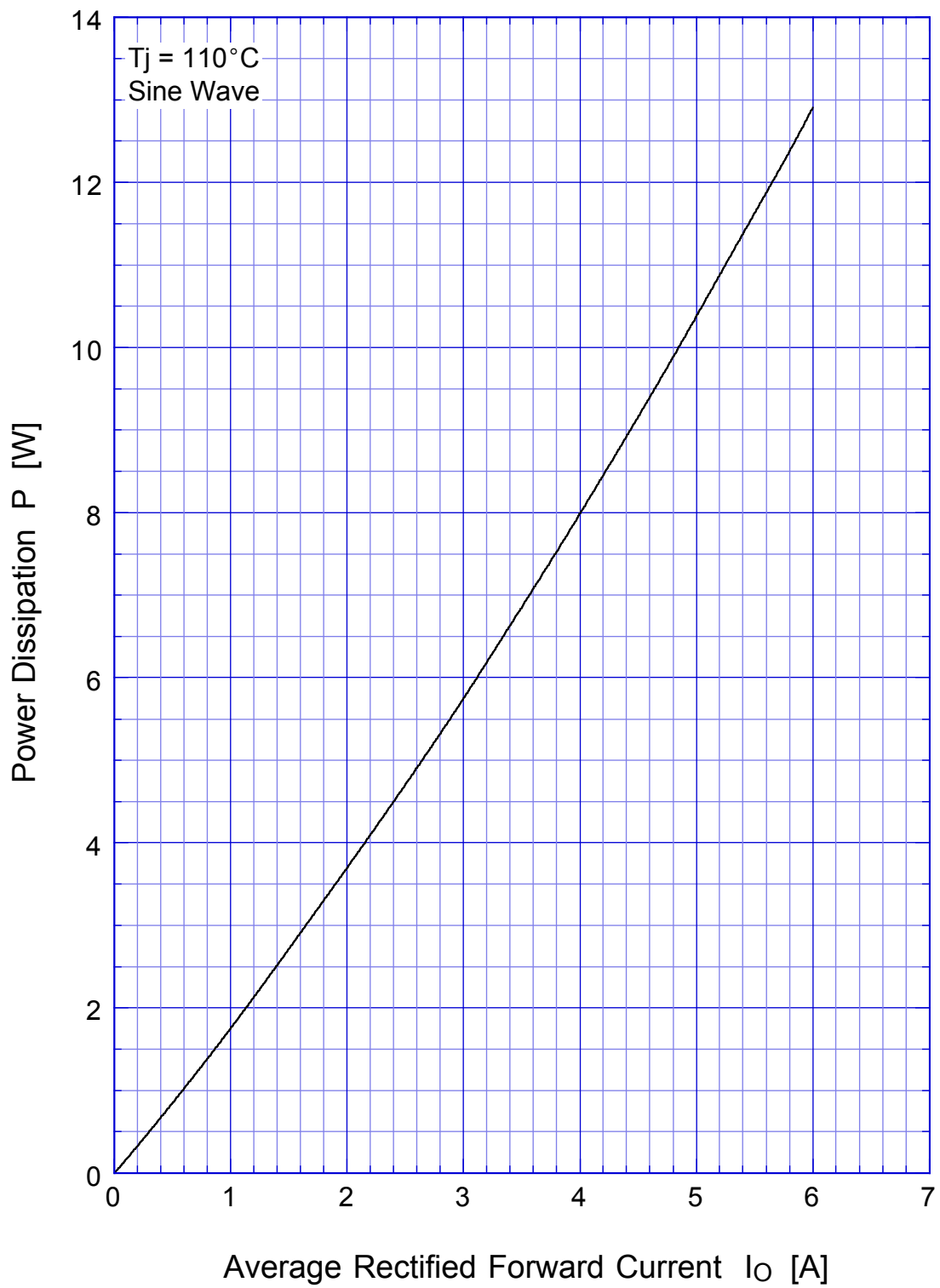
MJ2400 Total Forward Power Dissipation



MJ2400 Thyristor Forward Power Dissipation



MJ2400 Bridge Diode Forward Power Dissipation



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