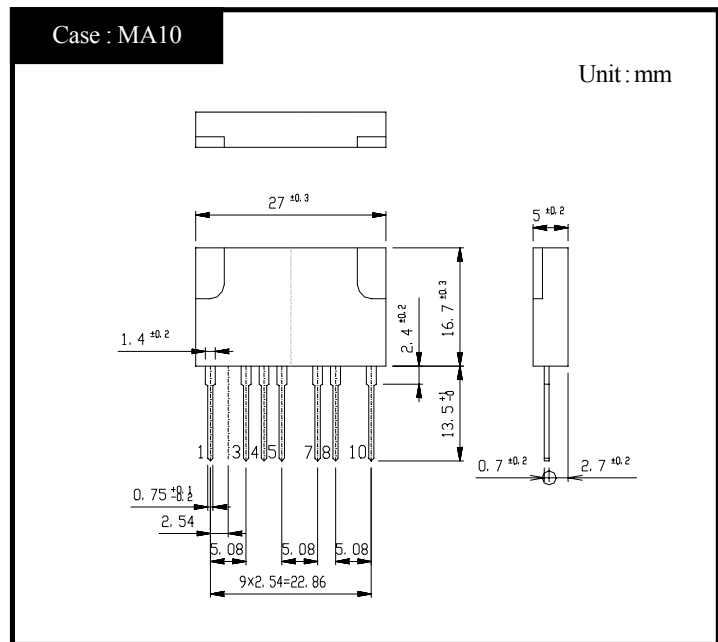


MJ2400

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)	Ta=25°C				
			Heatsink	Tc=106°C	1.6	1.24	A
				Tc=95°C	3.4	-	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		

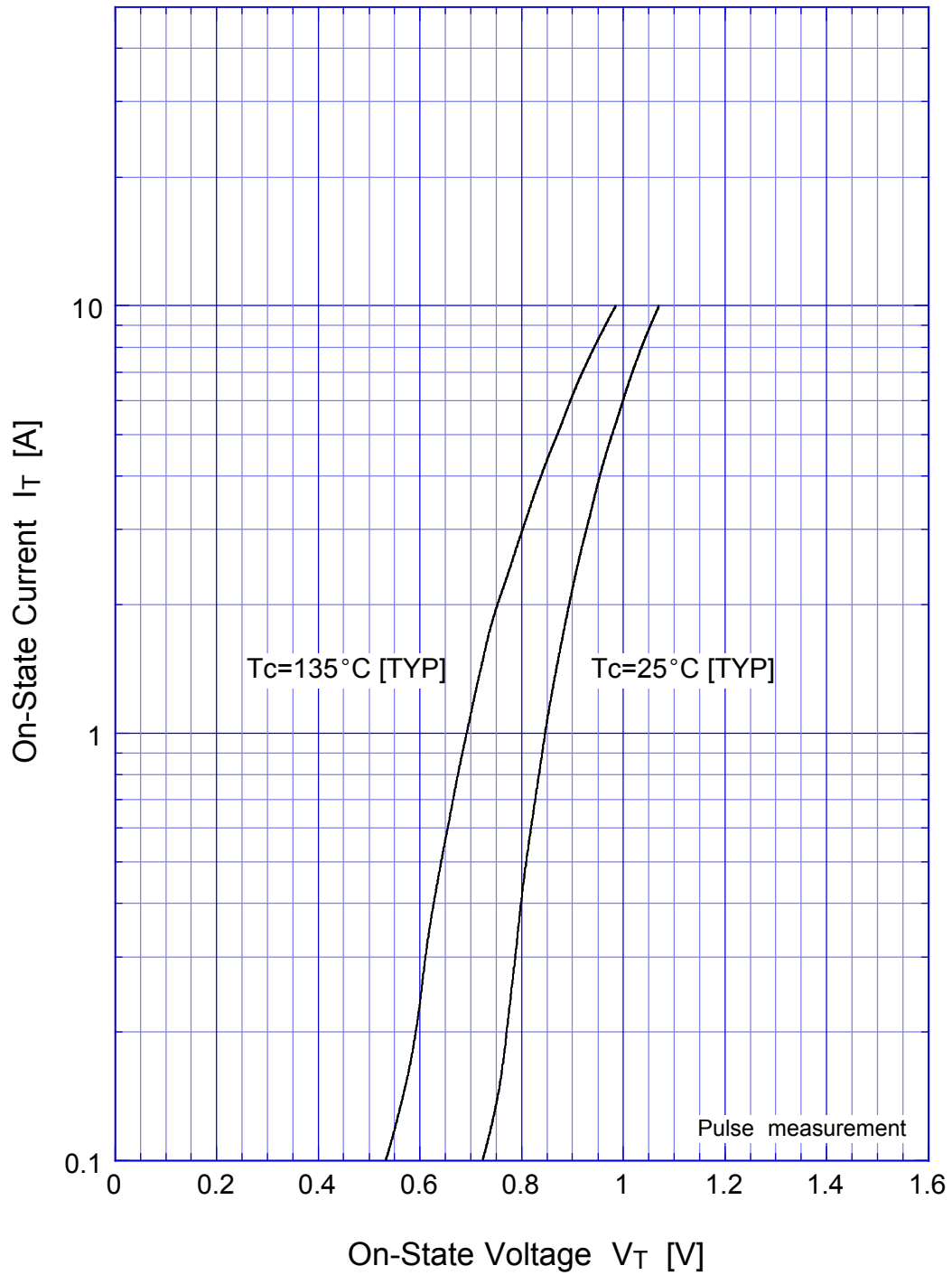
●Electrical Characteristics (Tc=25°C)

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		MAX 10	μA
	Forward Voltage	V _F	I _F =2A,①-⑧,⑩-⑧,④-①,④-⑩,①-⑦,⑩-⑦		MAX 1.05	V
SCR	Repetitive Peak Reverse Current	I _{RRM}	V _{RR} =400V,④-③ R _{GK} =1kΩ		MAX 10	μA
	Off-state Current	I _{DRM}	V _{DR} =400V,③-④ R _{GK} =1kΩ		MAX 10	μA
	On-state Voltage	V _T	IT=3.4A, ③-④ R _{GK} =1kΩ		MAX 1.05	V
	Gate-Trigger Current	I _{GT}	V _D =6V,R _I =20kΩ R _{GK} =1kΩ		MAX 1	mA
	Gate-Trigger Voltage	V _{GT}	V _D =6V,R _I =20kΩ R _{GK} =1kΩ		MAX 1	V
	Gate-Non-Trigger Voltage	V _{GD}	V _D =200V		MIN 0.3	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

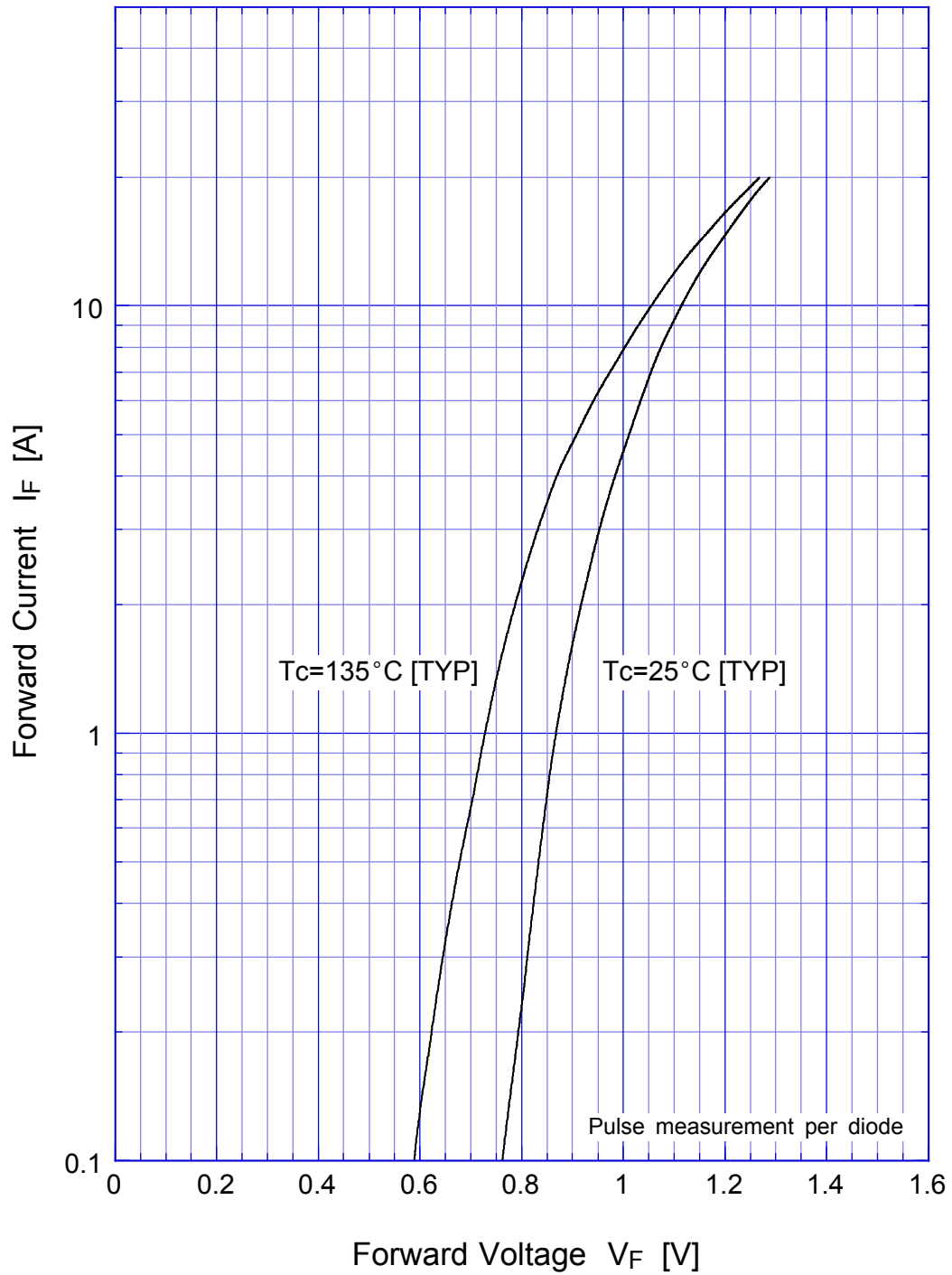
Figure in ○=Terminal Sign

AC100V:90to132V AC200V:180to276V

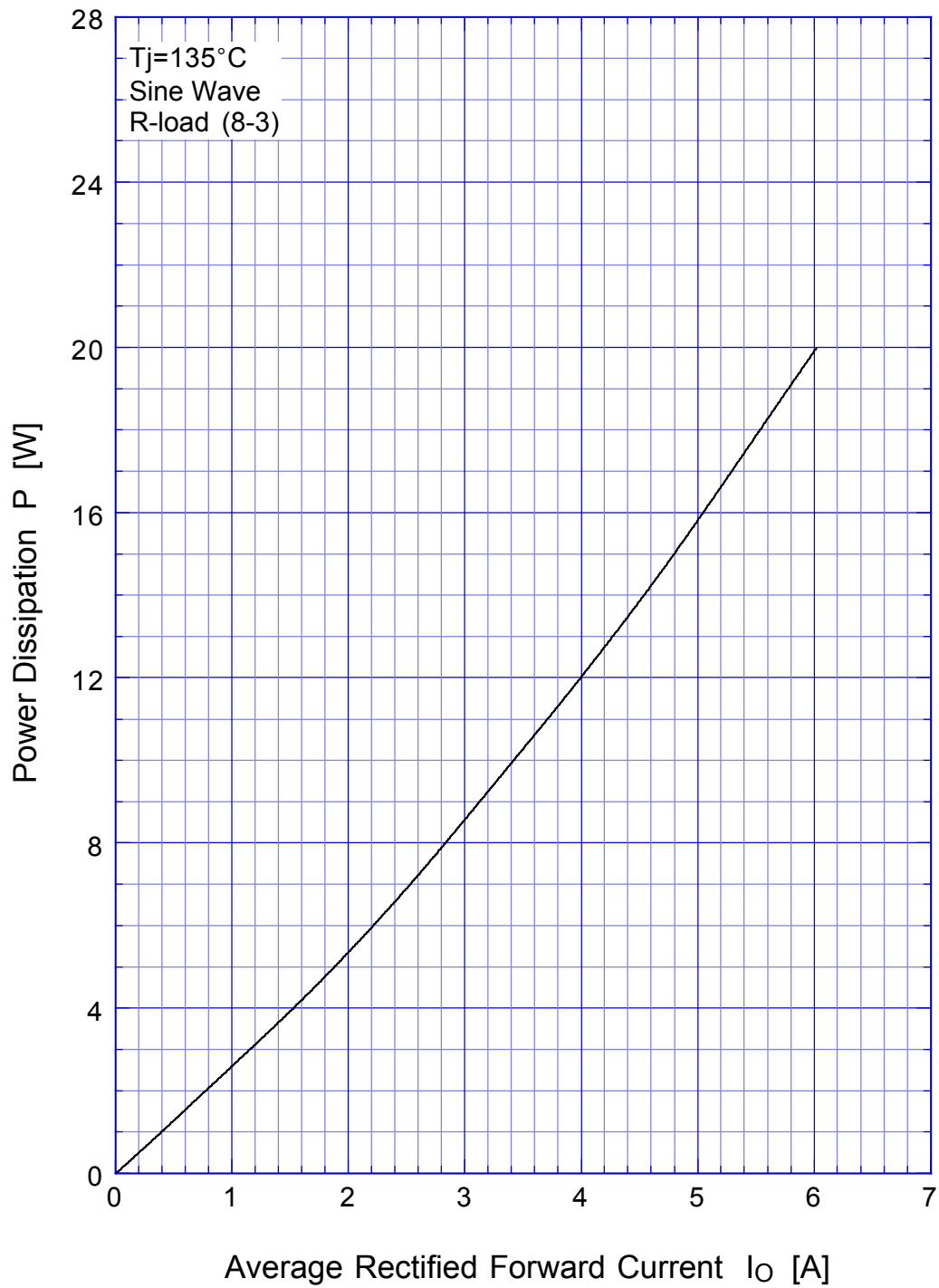
MJ2400 Thyristor Forward Voltage



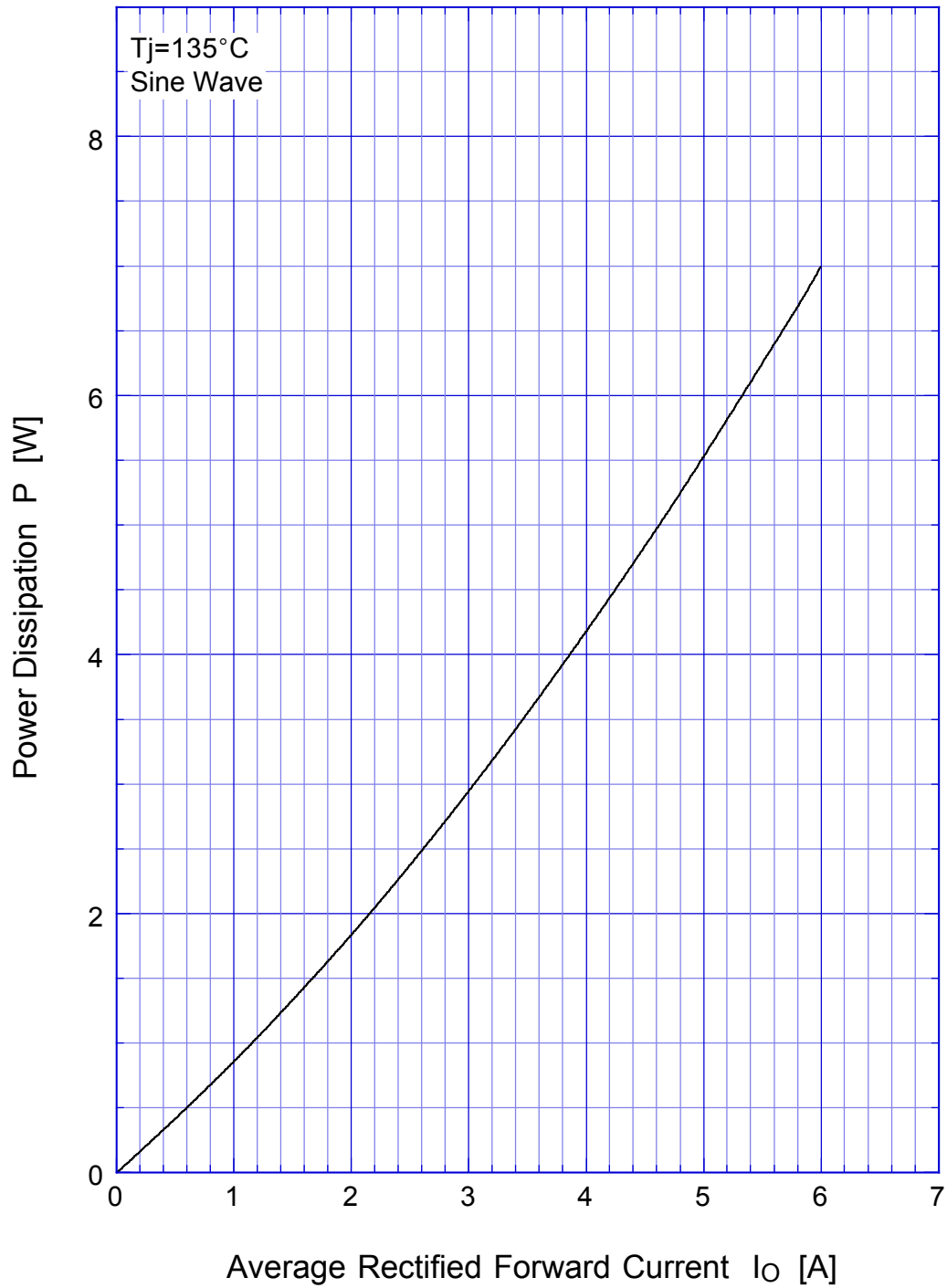
MJ2400 Diode Forward Voltage



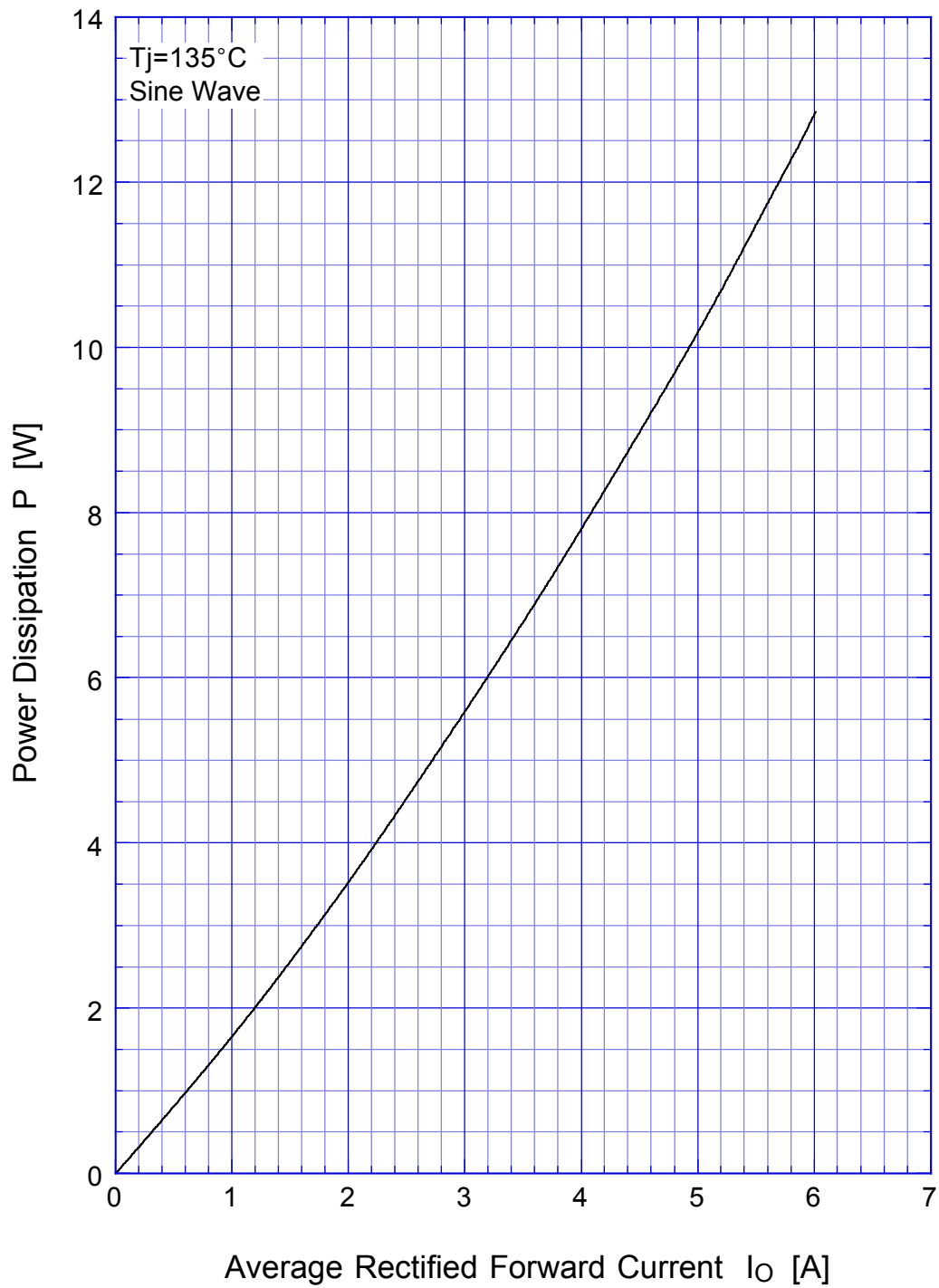
MJ2400 Total Forward Power Dissipation



MJ2400 Thyristor Forward Power Dissipation

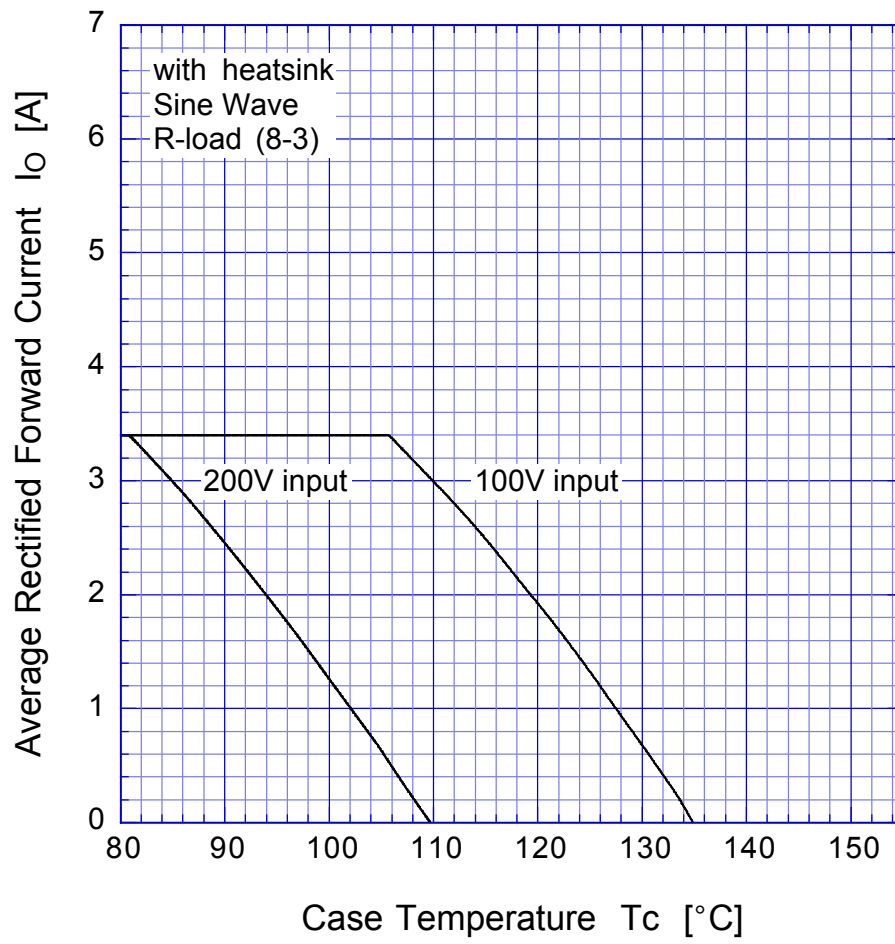


MJ2400 Bridge Diode Forward Power Dissipation



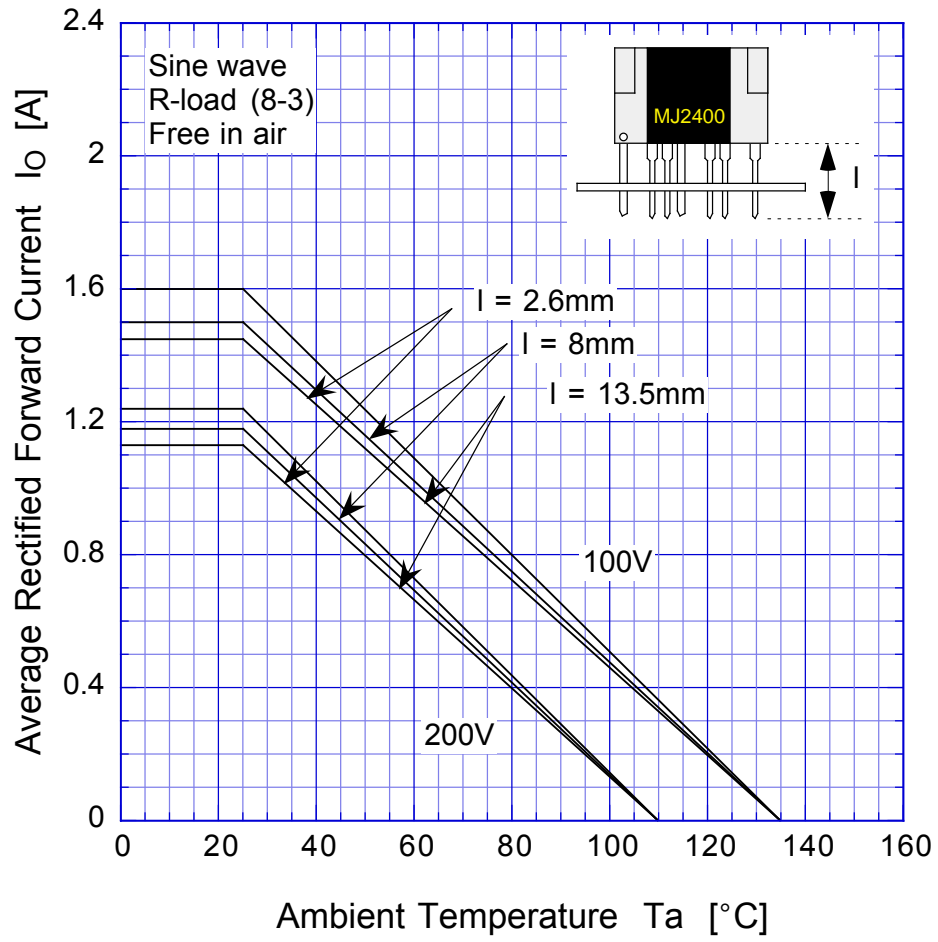
MJ2400

Derating Curve



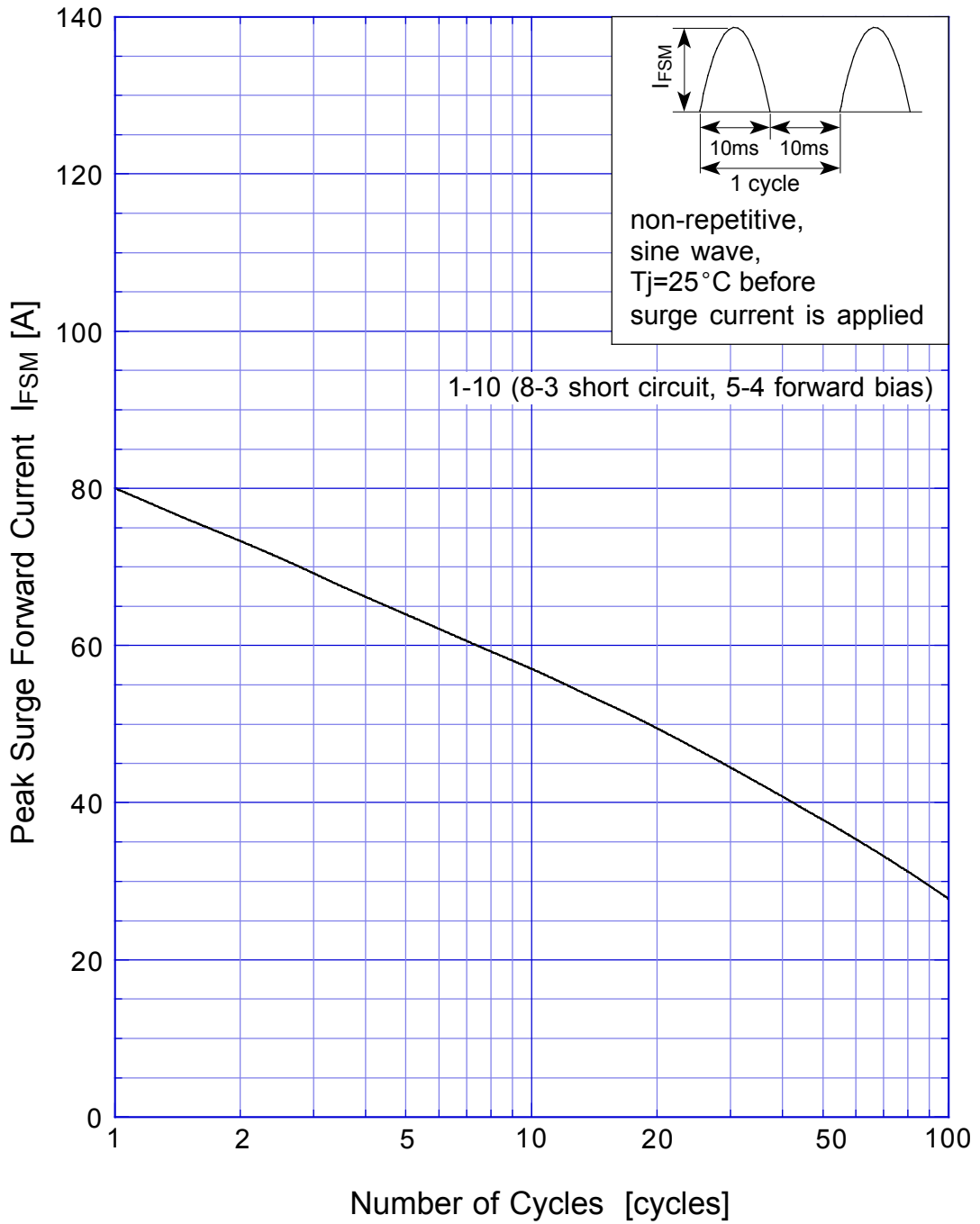
MJ2400

Derating Curve

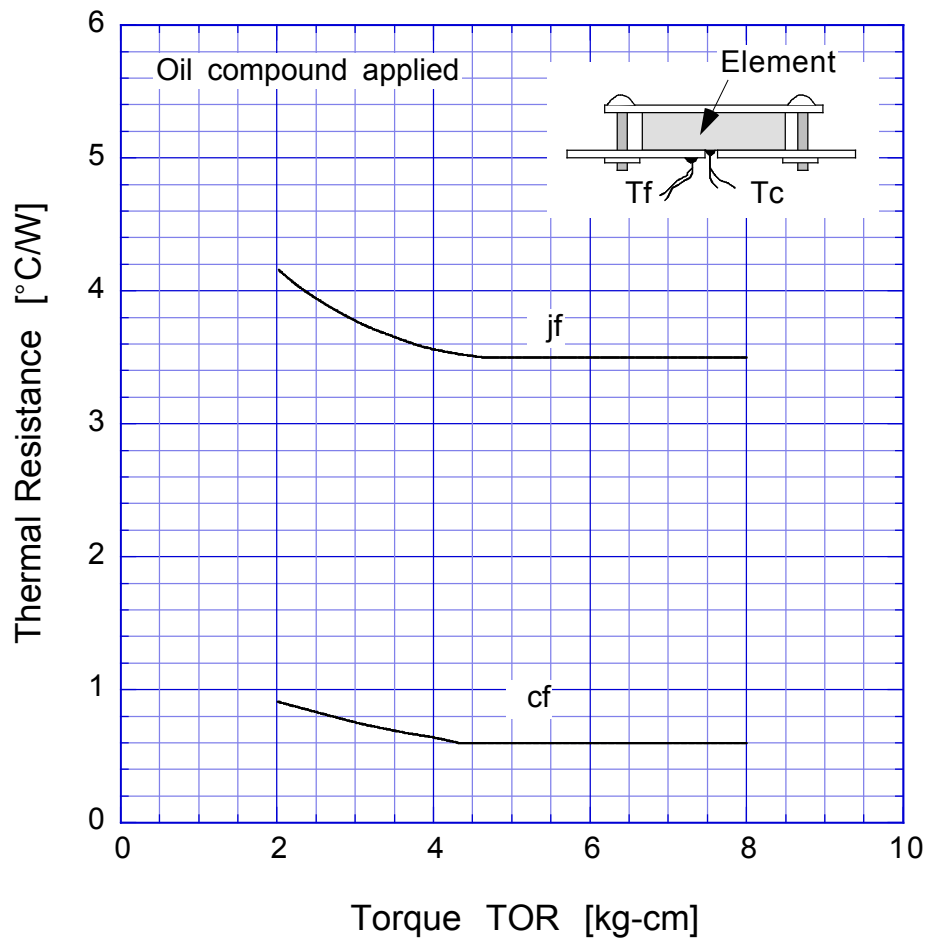


MJ2400

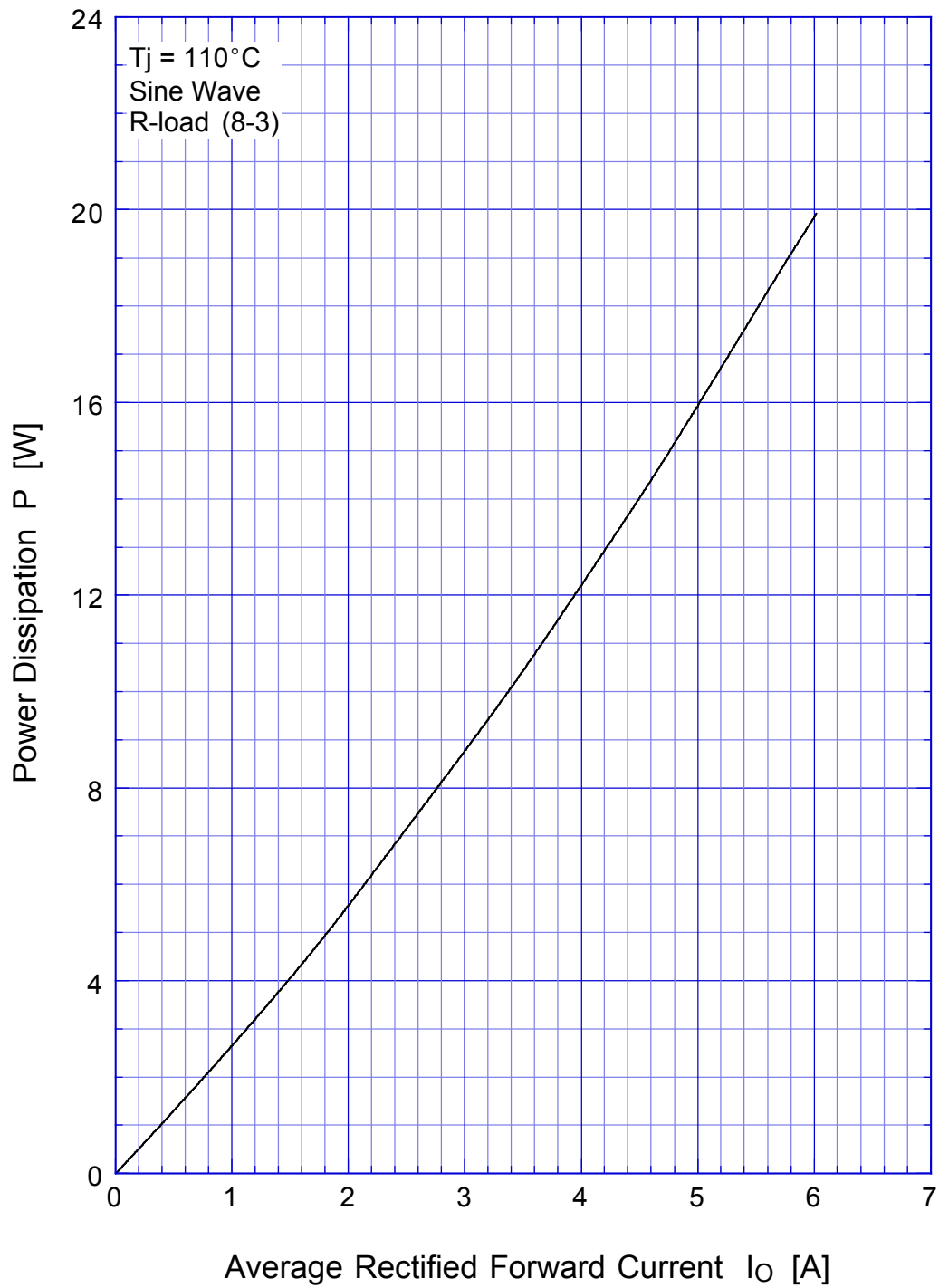
Peak Surge Forward Capability



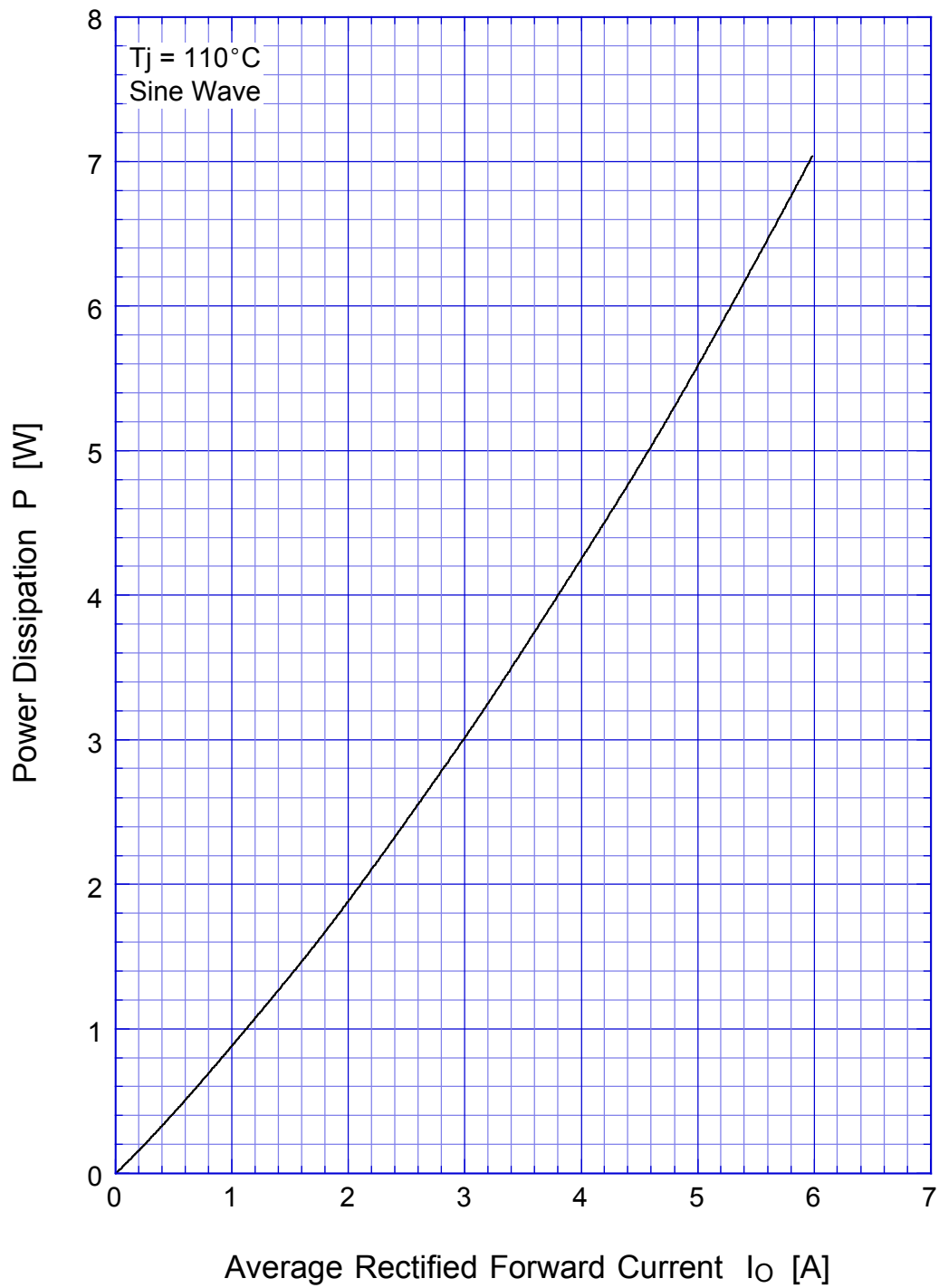
MJ2400 Torque - Thermal Resistance



MJ2400 Total Forward Power Dissipation



MJ2400 Thyristor Forward Power Dissipation



MJ2400 Bridge Diode Forward Power Dissipation

