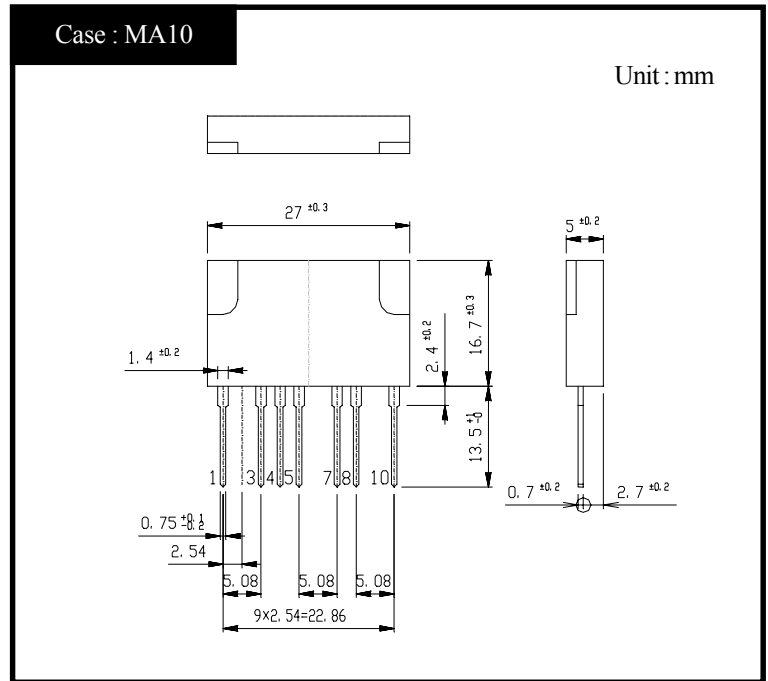


MJ2400

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	

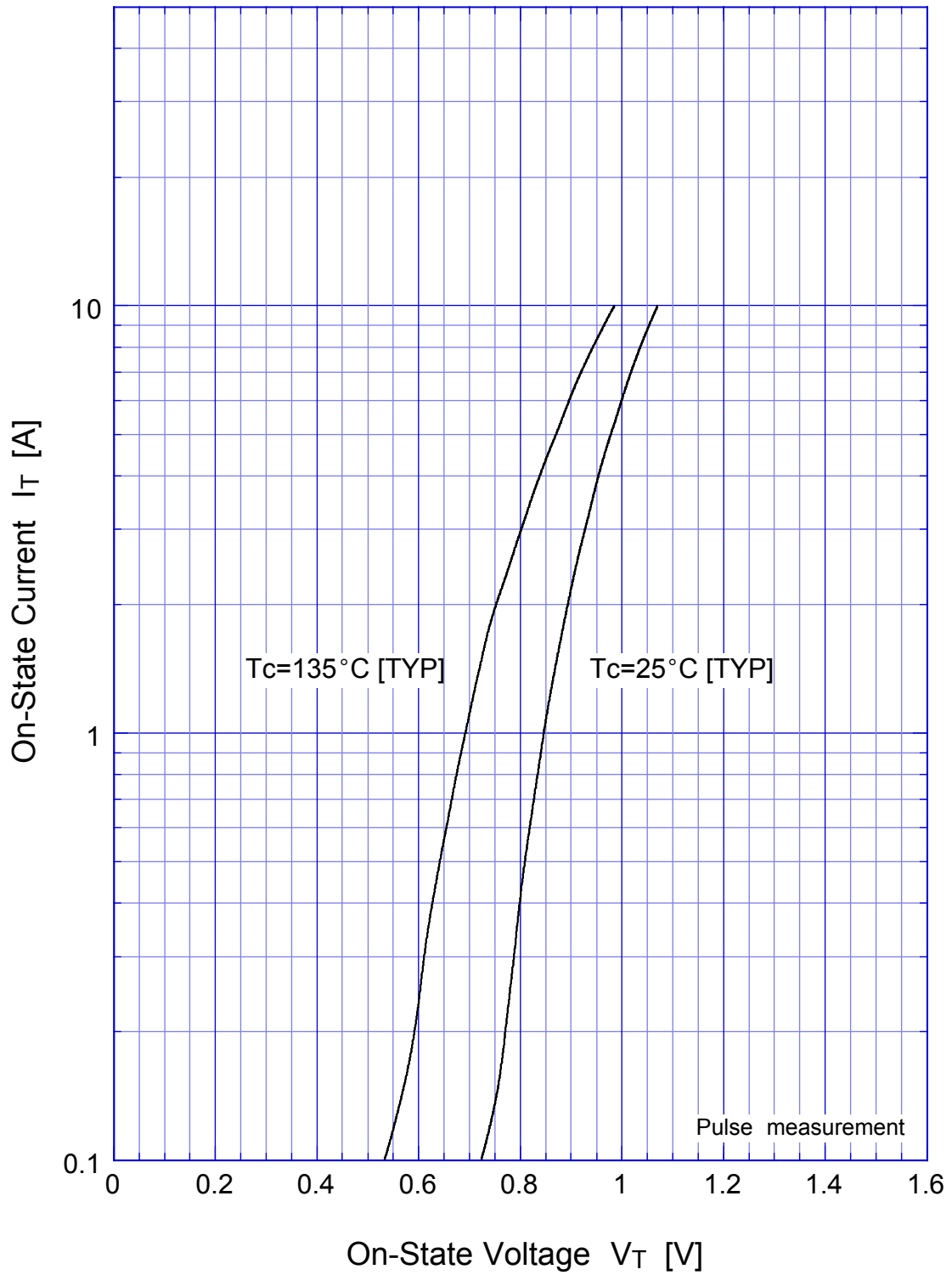
Electrical Characteristics (T_c=25°C)

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

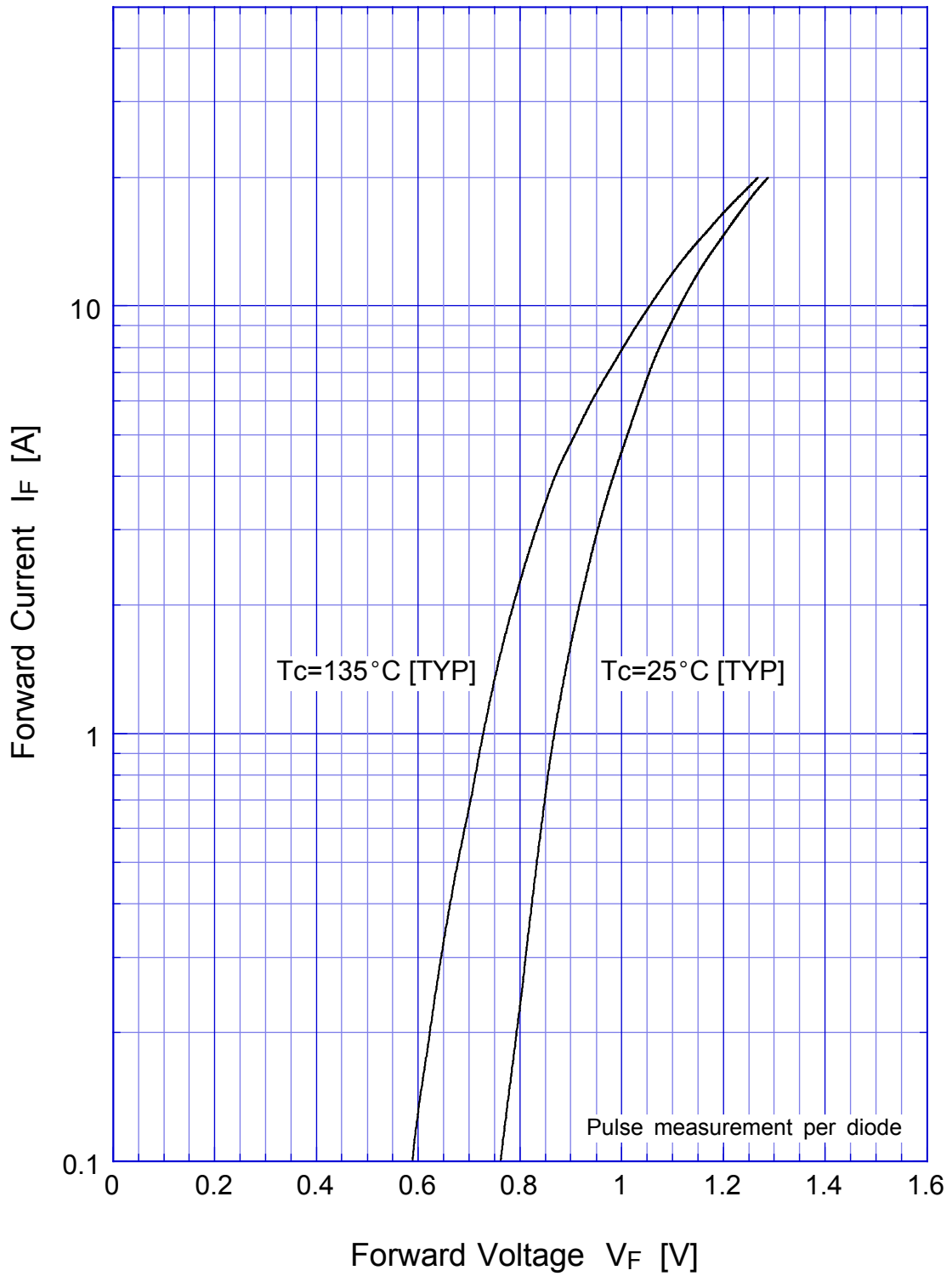
AC100V:90to132V AC200V:180to276V

MJ2400 Thyristor Forward Voltage

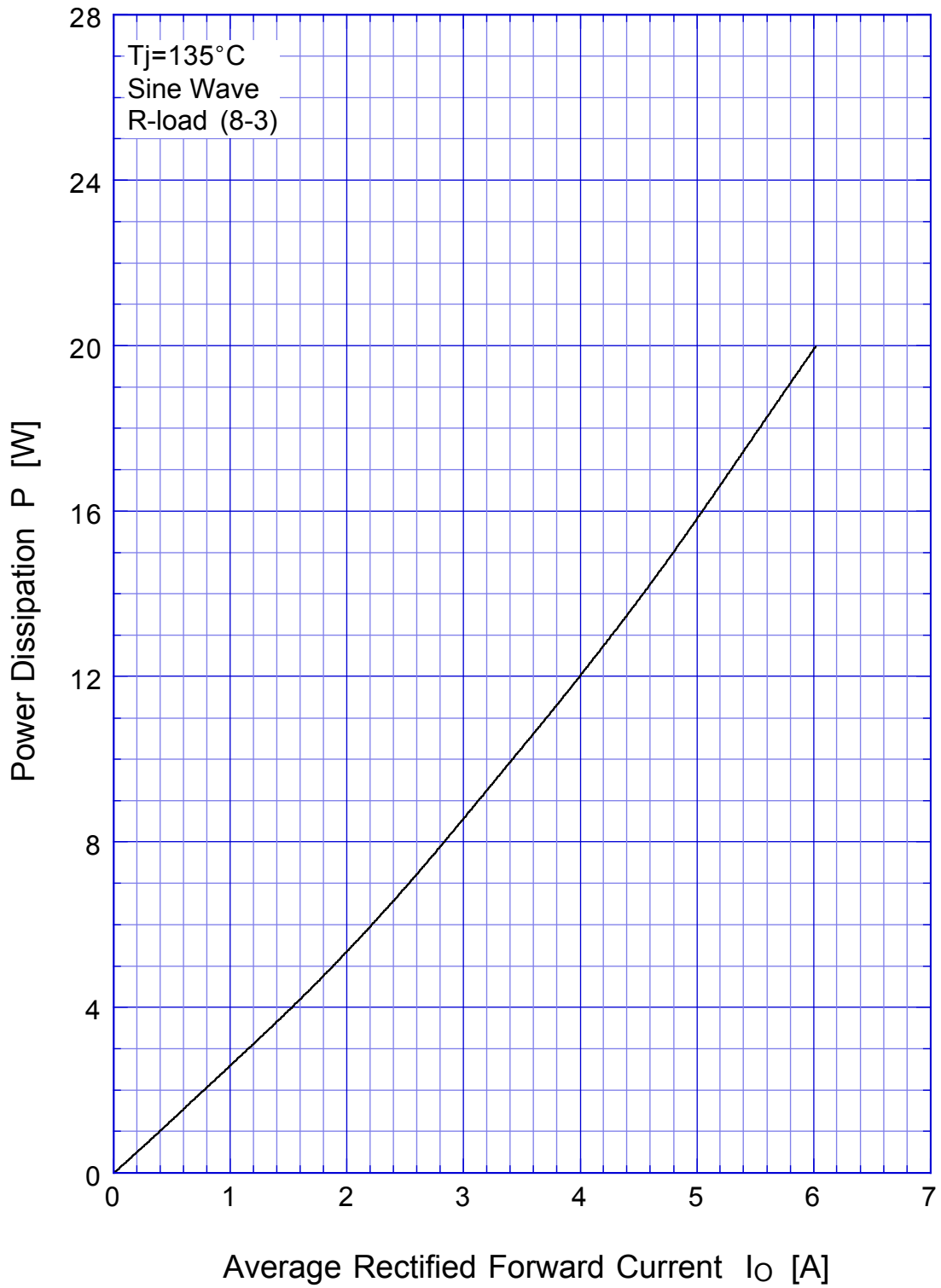


MJ2400

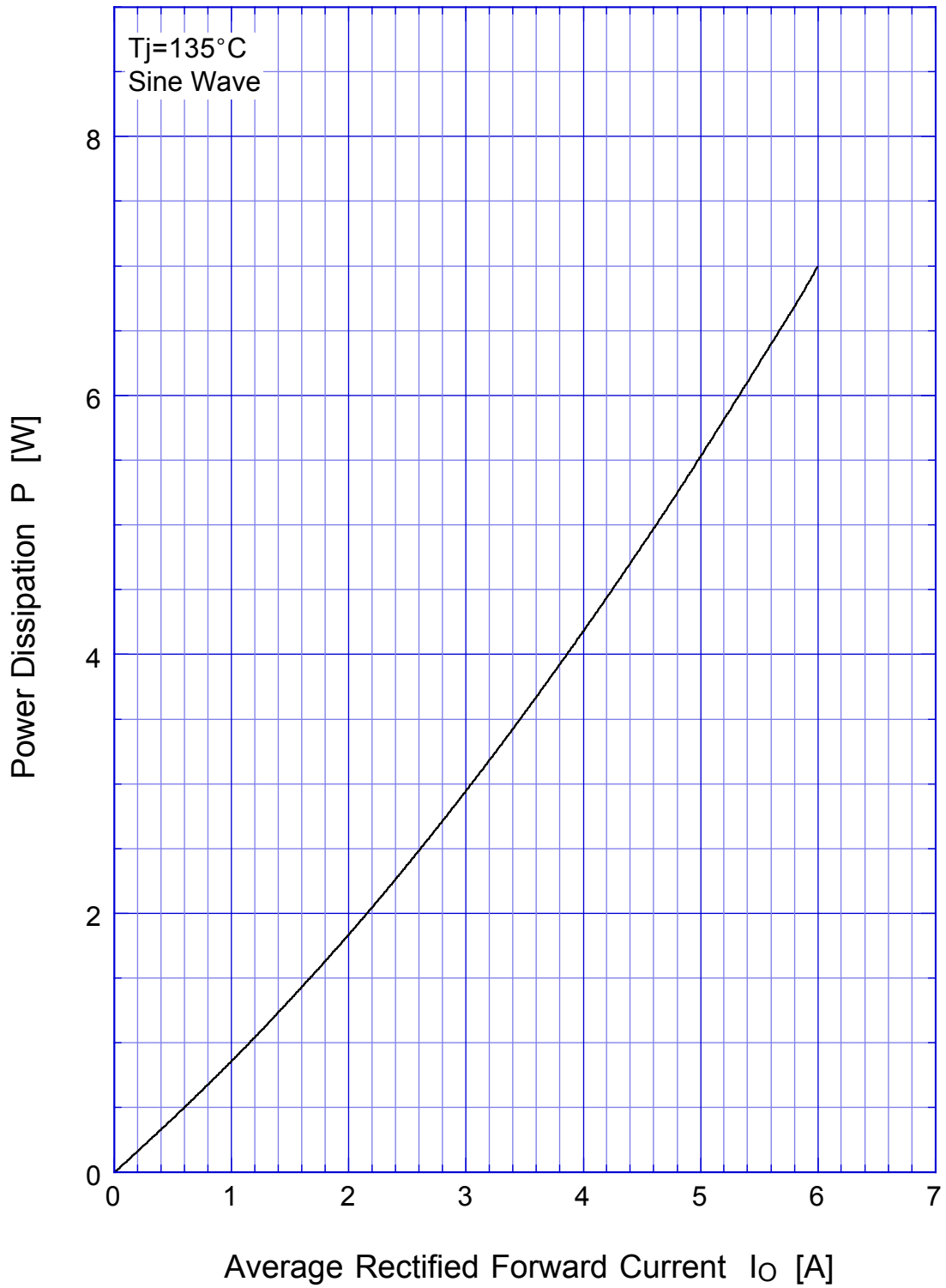
Diode Forward Voltage



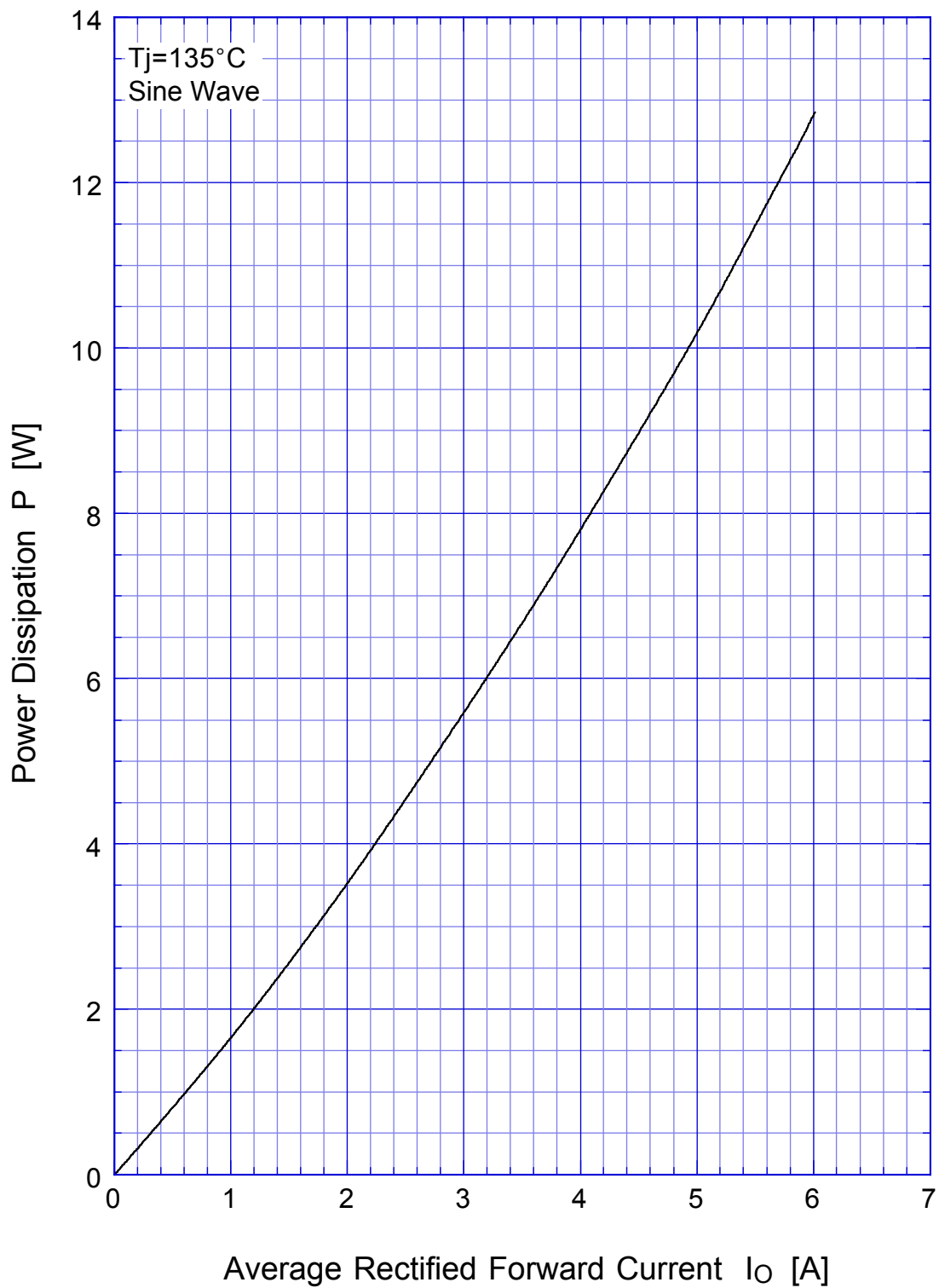
MJ2400 Total Forward Power Dissipation



MJ2400 Thyristor Forward Power Dissipation

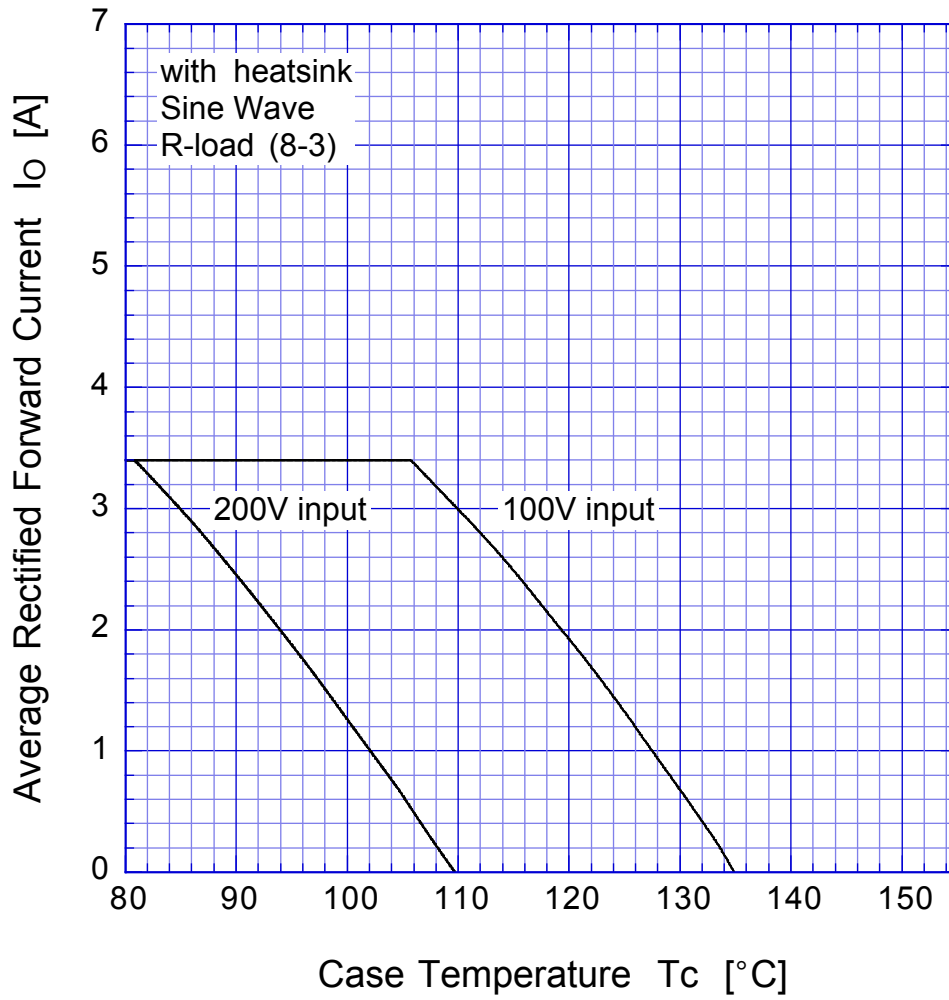


MJ2400 Bridge Diode Forward Power Dissipation



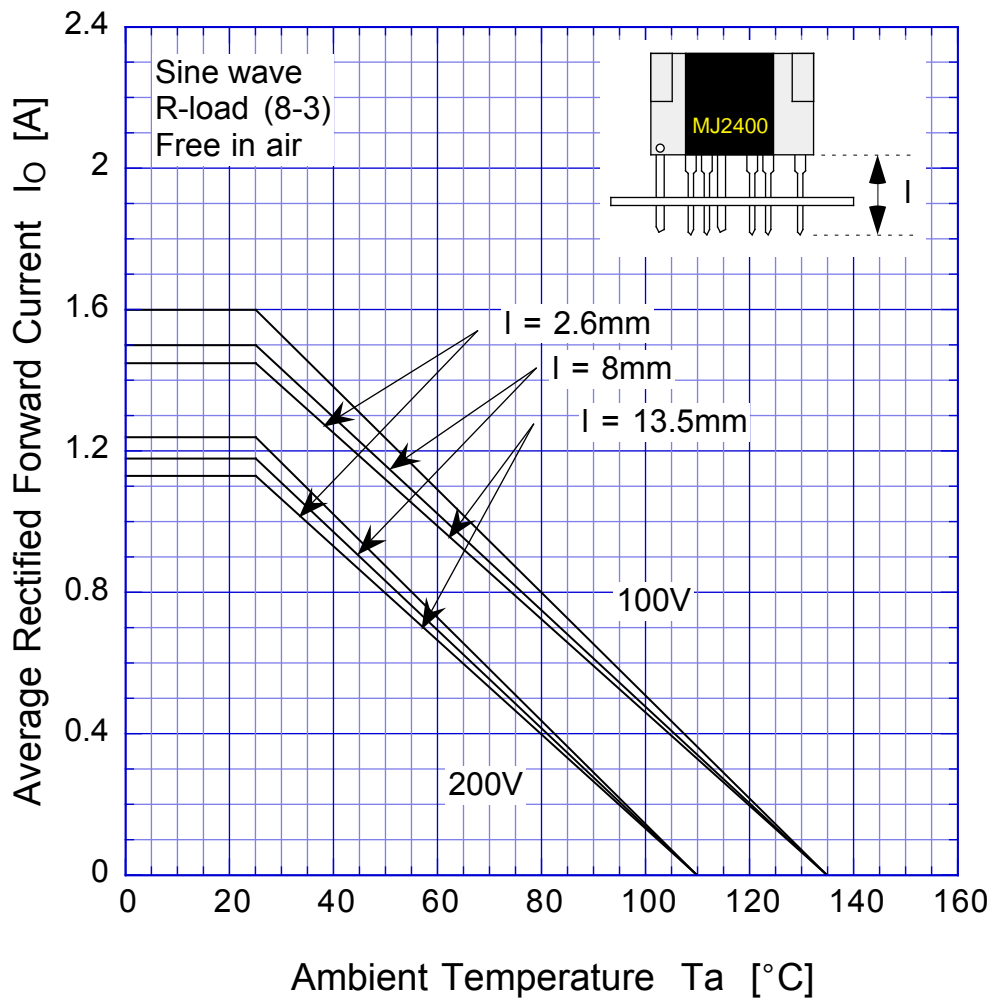
MJ2400

Derating Curve



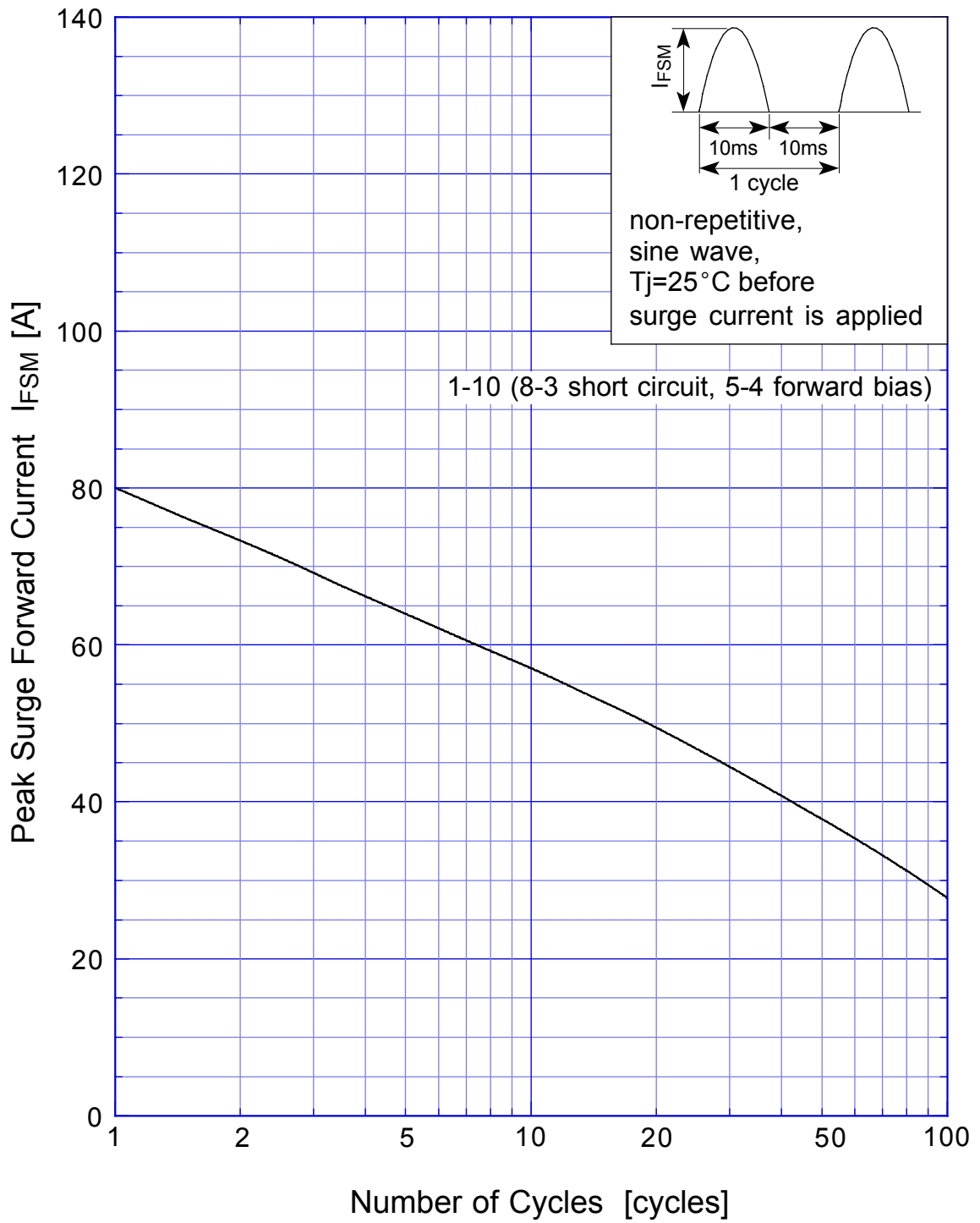
MJ2400

Derating Curve

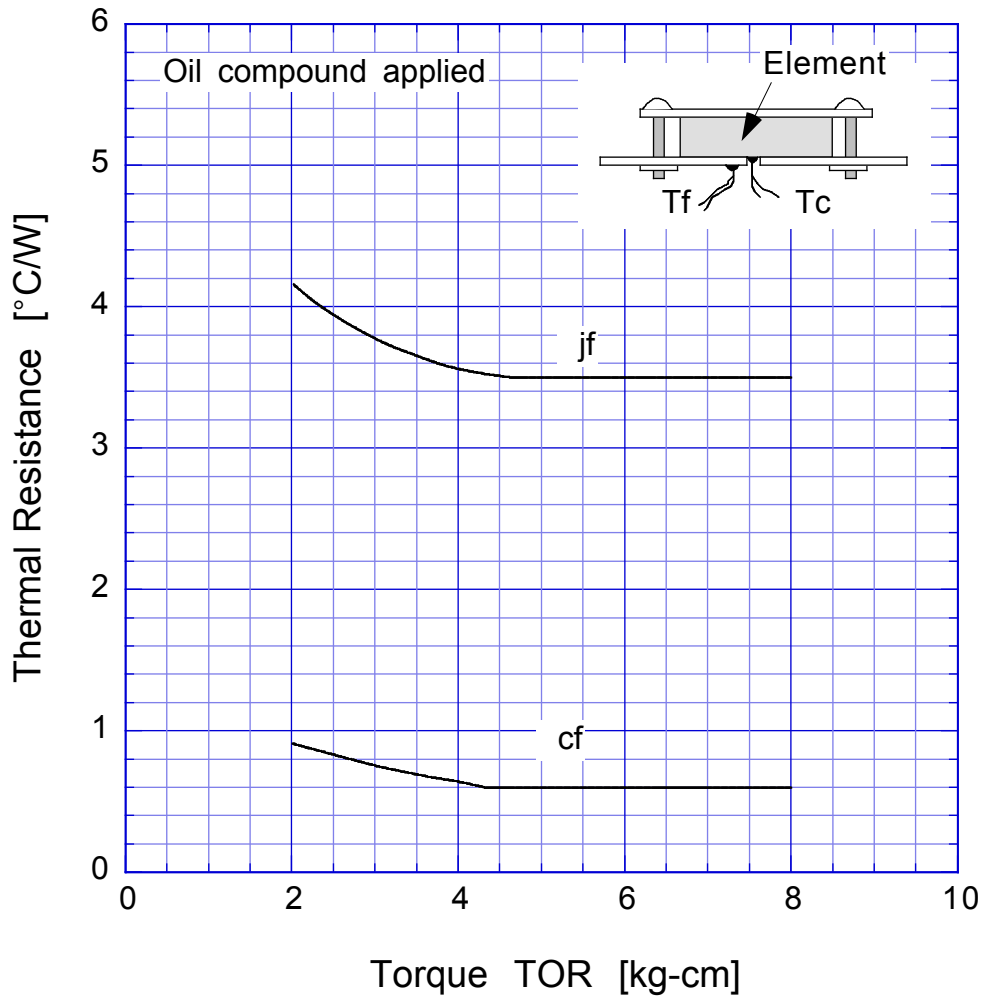


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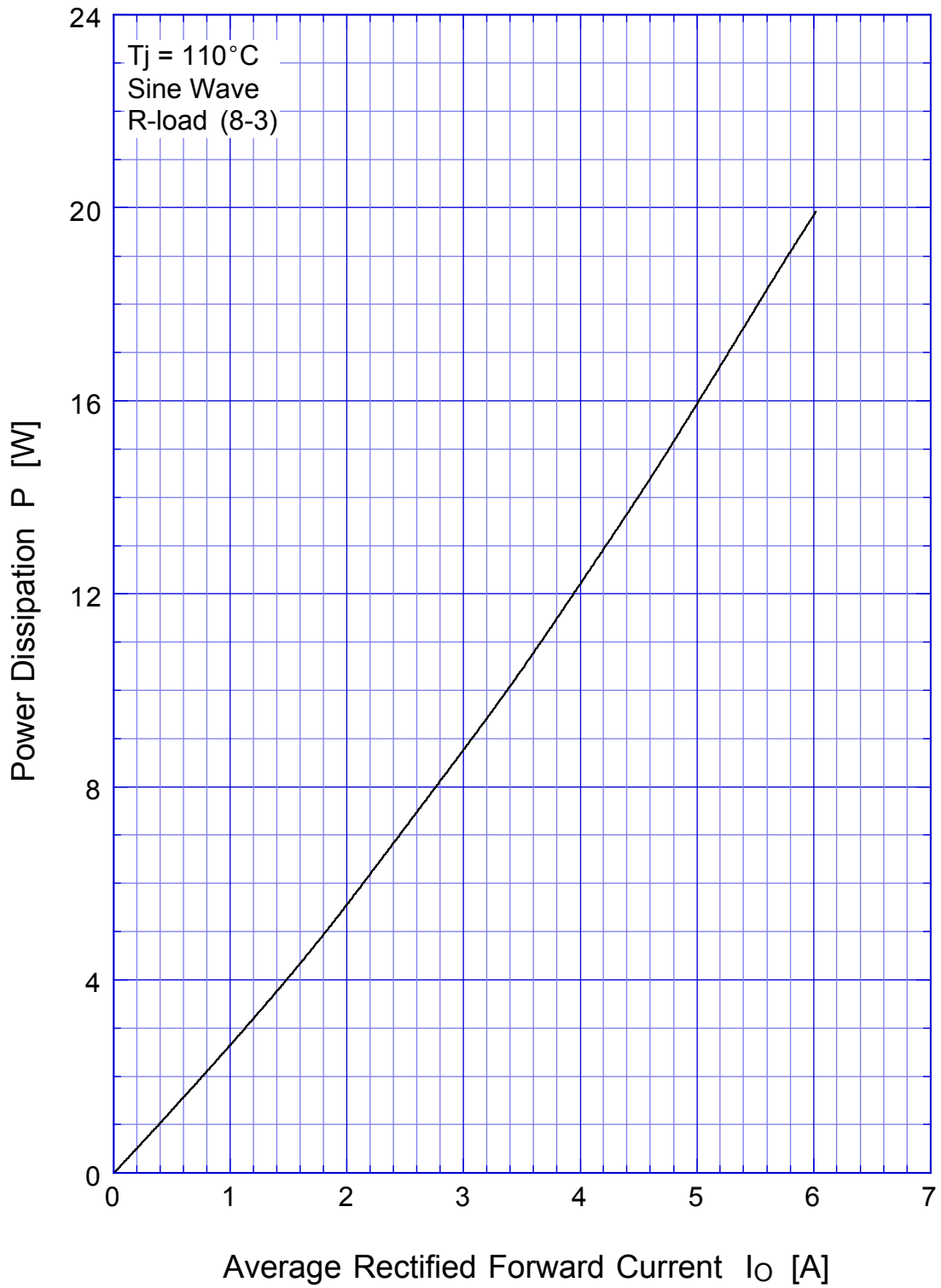
Peak Surge Forward Capability



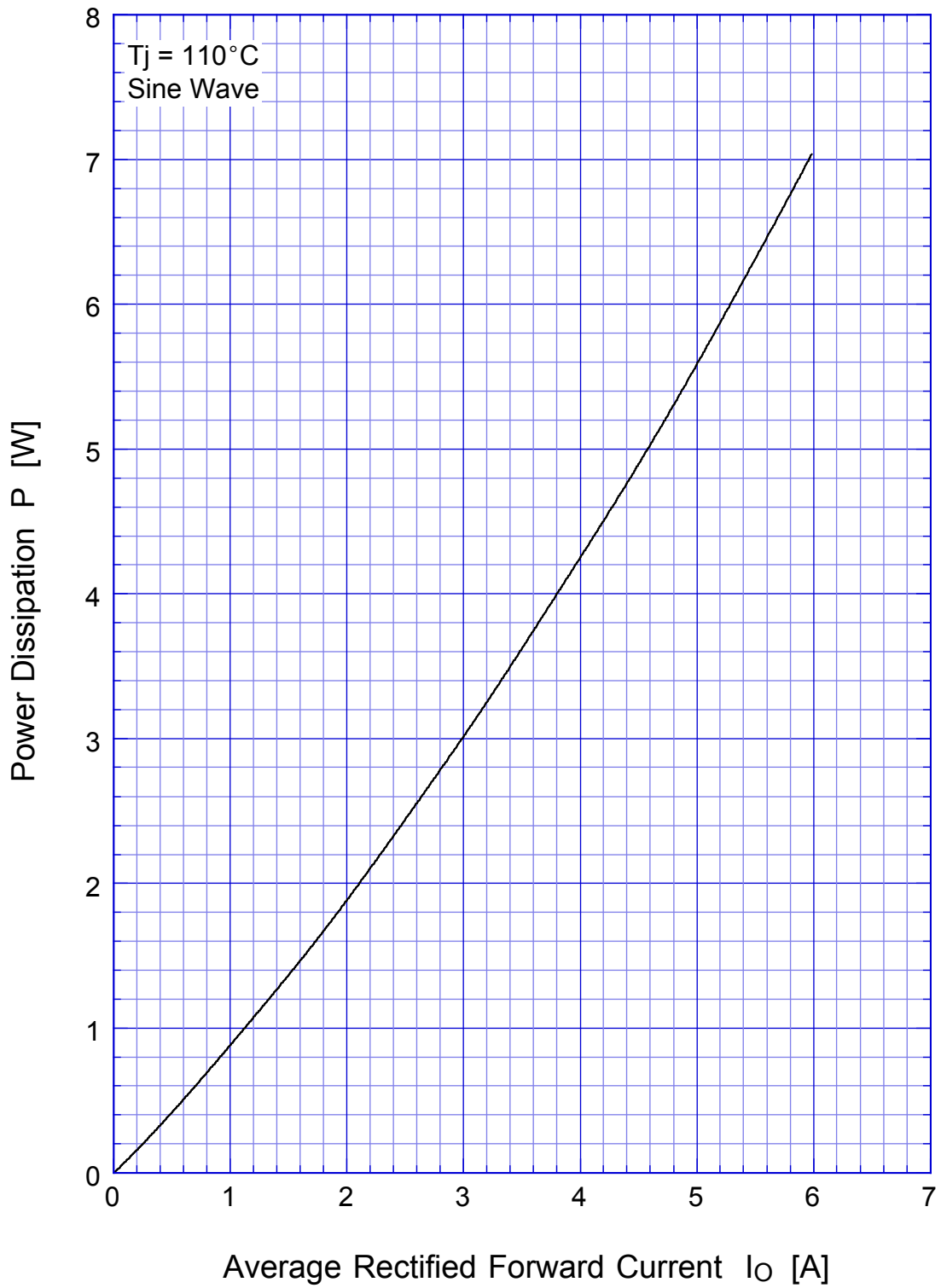
MJ2400 Torque - Thermal Resistance



MJ2400 Total Forward Power Dissipation



MJ2400 Thyristor Forward Power Dissipation



MJ2400 Bridge Diode Forward Power Dissipation

