SHINDENGEN

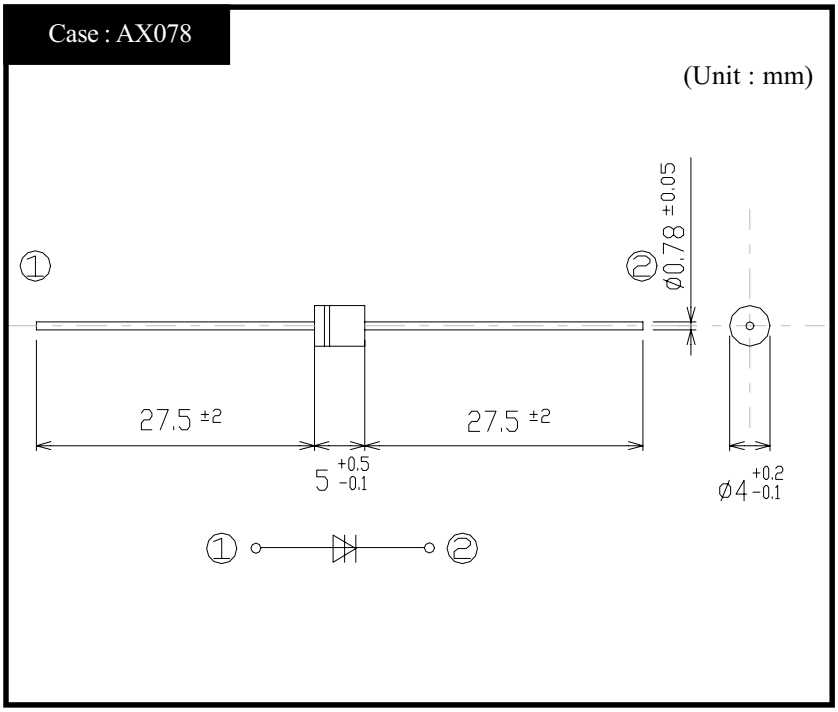
Sidac

G1V(B)22C

OUTLINE DIMENSIONS

Case : AX078

(Unit : mm)



RATINGS

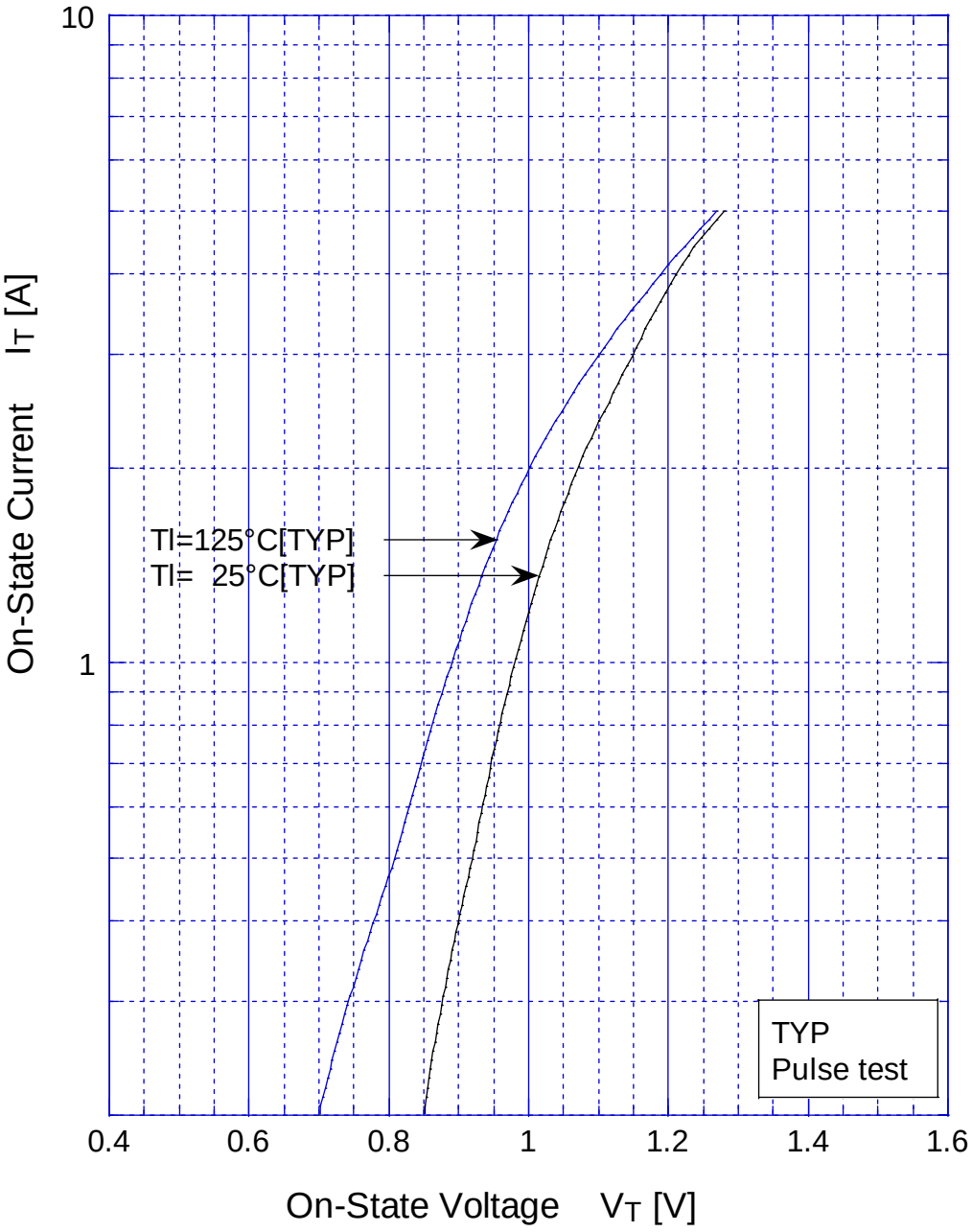
Absolute Maximum Ratings（Unless otherwise specified, Tl=25℃）

Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-40～125	℃
Operating Junction Temperature	Tj		125	℃
Maximum Off-state Voltage	$V_{DRM(A)}$		190	V
RMS On-state Current	I_T	Tl = 102℃, 50Hz Sine wave (θ = 180°)	1	A
Pulse On-state Current	I_{TRM}	Ta = 25 ℃, Pulse width 10 μ s, 60 Hz Sine wave	120	A
		Ta = 25 ℃, Pulse width 10 μ s, 5 Hz Sine wave	280	
Critical Rate of Rise of On-state Current	di_T/dt		80	A/ μ s

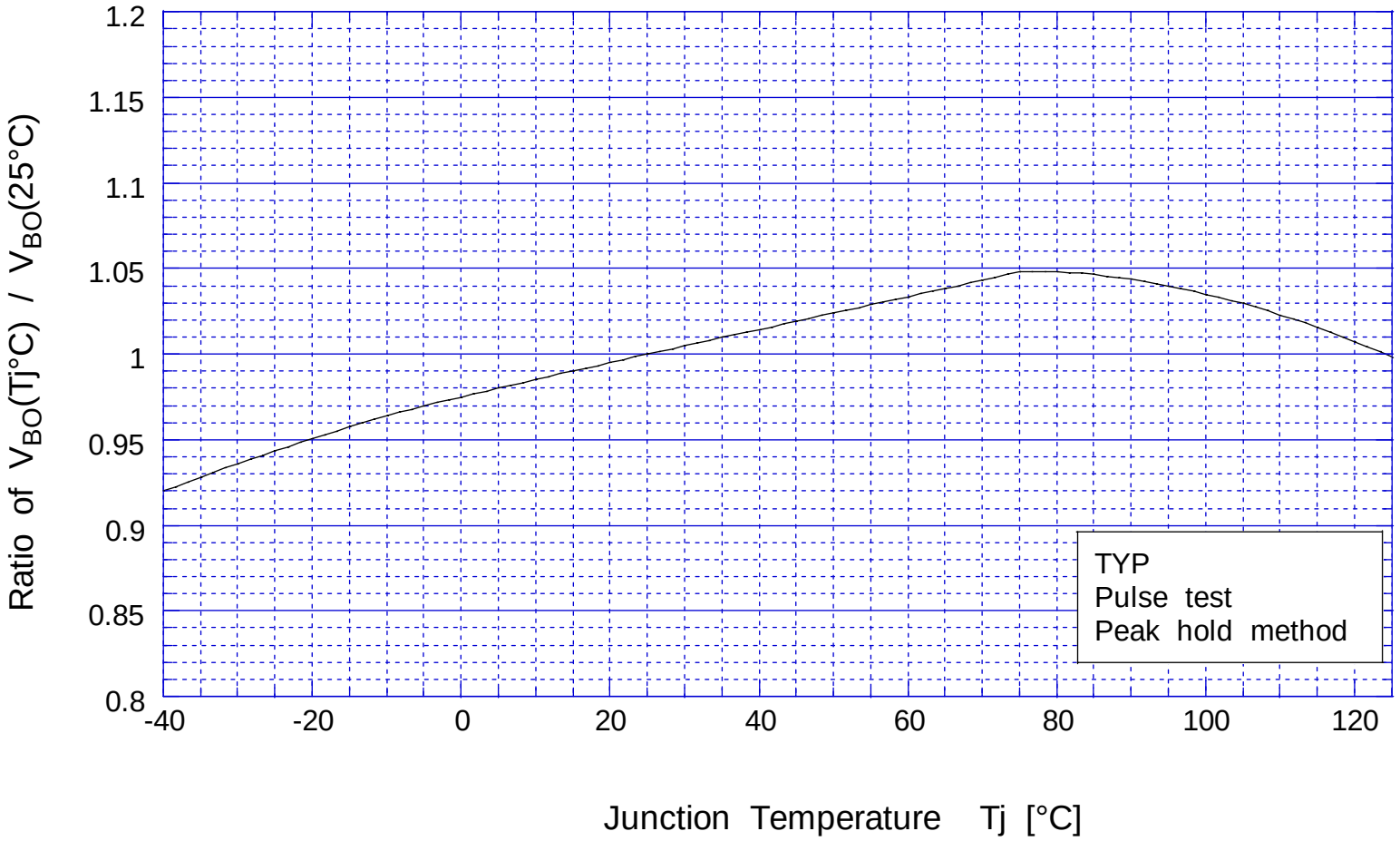
Electrical Characteristics（Unless otherwise specified, Tl=25℃）

Item	Symbol	Conditions	Ratings	Unit
Breakover Voltage	$V_{BO(A)}$	Pulse measurement (dv/dt = 4V/ms)	Min 210 Max 230	V
Off-state Current	$I_{DRM(A)}$	$V_D = V_{DRM(A)}$	Max 10	μ A
Breakover Current	$I_{BO(A)}$		Max 0.5	mA
Holding Current	$I_{H(A)}$		Max 60	mA
	$I_{H(K)}$			
On-state Voltage	$V_{T(A)}$	I_T = 1A	Max 1.5	V
	$V_{T(K)}$	I_T = 1A		
Switching Resistance	$R_{S(A)}$		Min 0.1	kΩ
Thermal Resistance	θ jl	Junction to lead	Max 17	℃/W

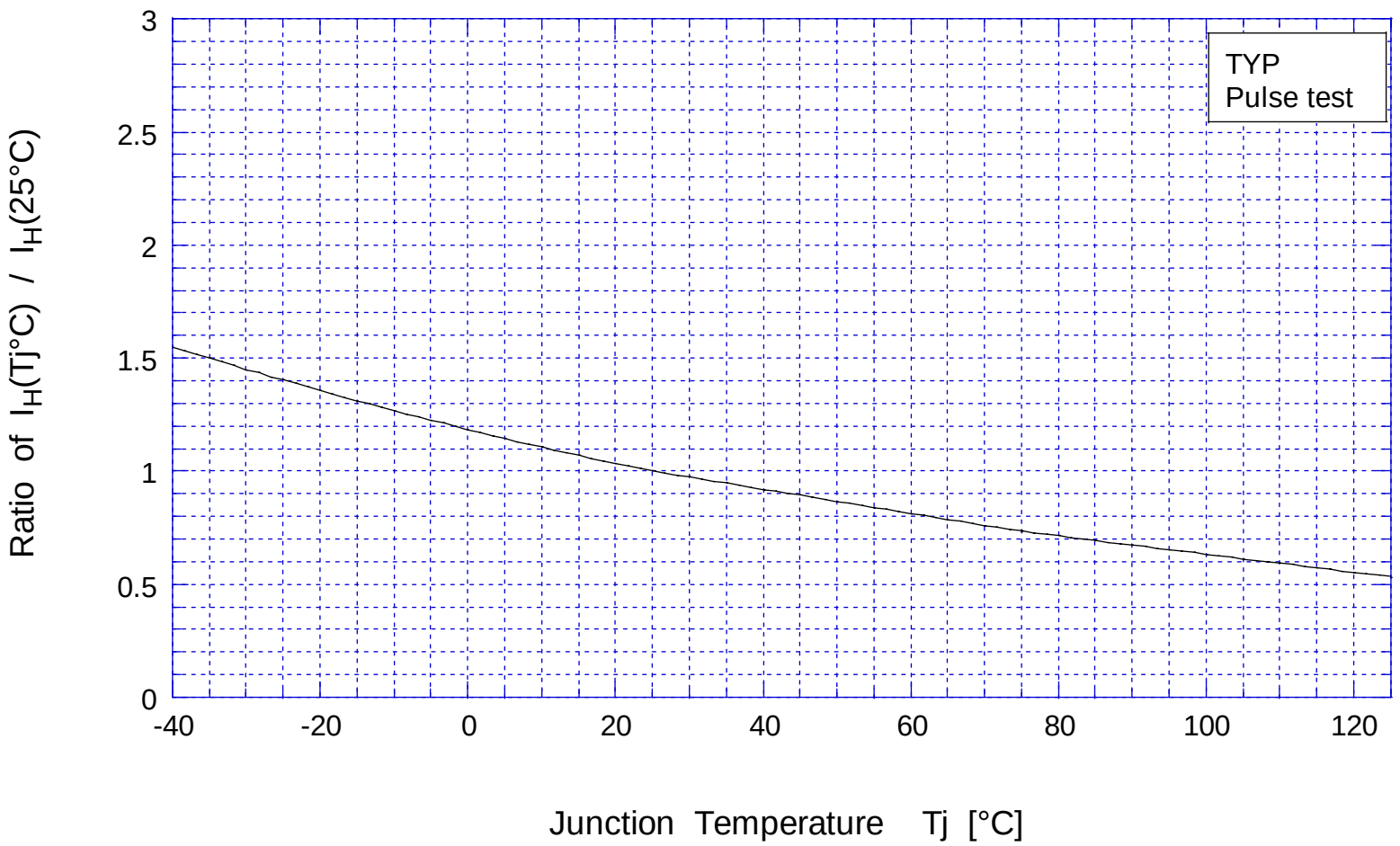
G1V(B)22C On-State Voltage vs On-State Current



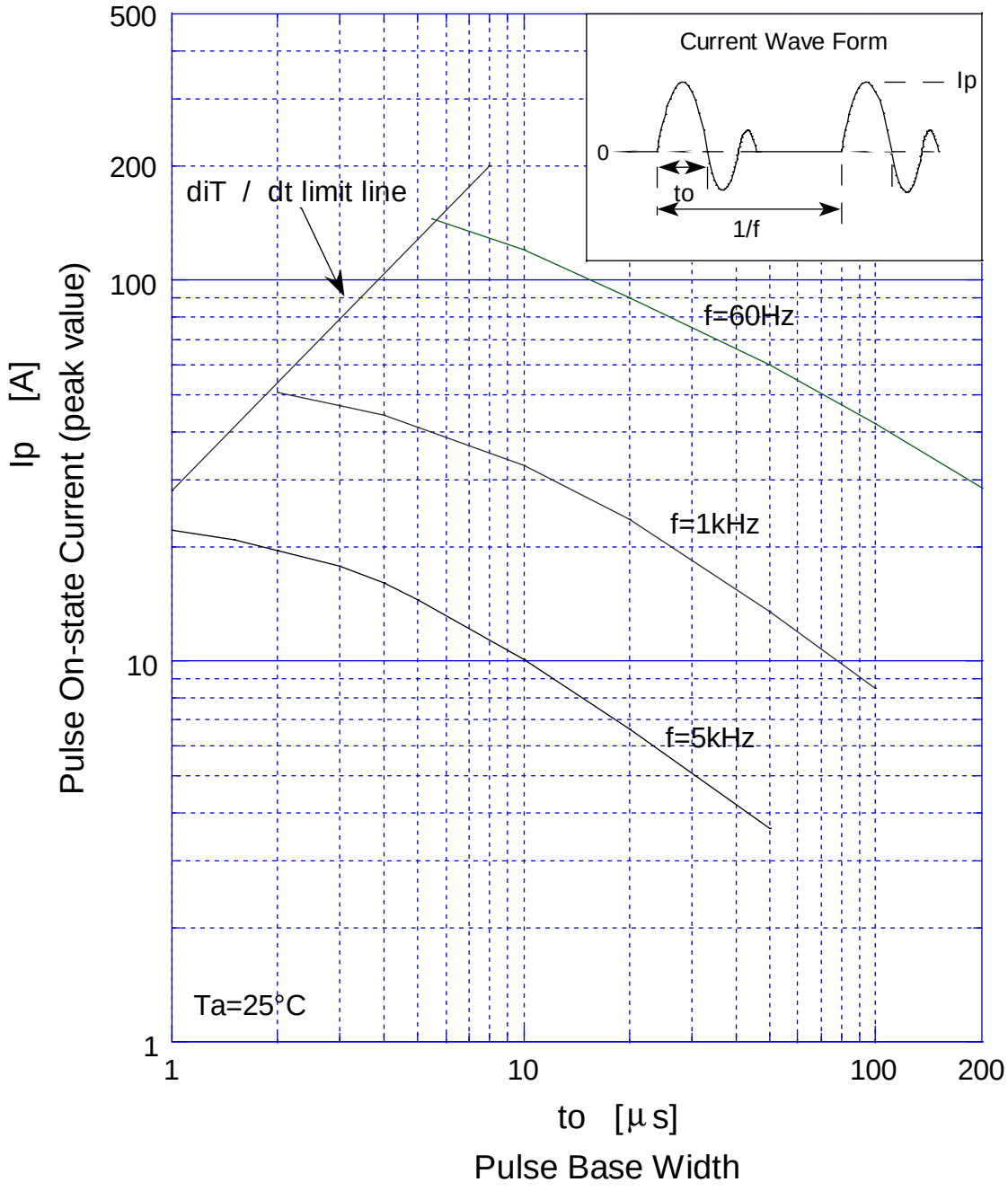
G1V(B)22C Break Over Voltage vs Junction Temperature



G1V(B)22C Holding Current - Junction Temperature



G1V(B)22C Pulse On-state Current Rating



G1V(B)22C Derating Curve