

Absolute Maximum Ratings

			規格値 Ratings	単位 Unit
保存温度 Storage Temperature	Tstg		-40~125	°C
接合部温度 Operating Junction Temperature	Tj		125	°C
オフ電圧 Maximum Off-state Voltage	VDRM		90	V
実効オン電流 RMS On-state Current	IT	Tj=98°C, 50Hz sine wave ($\theta=180^\circ$)	1	A
サージオン電流 Surge On-state Current	ITSM	Tj=25°C, 50Hz sine wave ($\theta=180^\circ$), non-repetitive 1-cycle peak value	16	A
パルスオン電流 Pulse On-state Current	ITRM	Ta=25°C, pulse width $t_0=$ 10 μ s, sine wave, repetitive peak value	f=1kHz 15	A
			f=60Hz 60	
オン電流上昇率 Critical Rate of Rise of On-state Current	diT/dt		50	A/ μ s

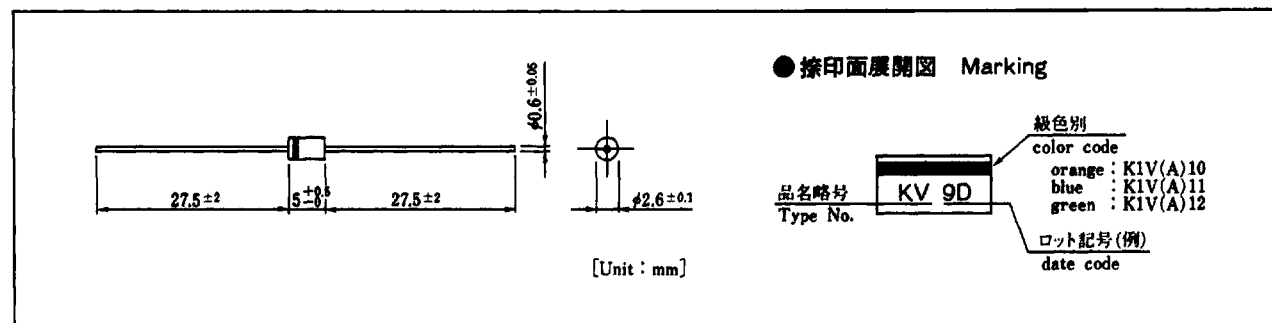
Electrical Characteristics (Ta=25°C)

項目 Item	記号 Symbol	条件 Conditions	規格値 Ratings			単位 Unit
			K1V(A)10	K1V(A)11	K1V(A)12	
ブレイクオーバー電圧 Breakover Voltage	VBO	IB=0, 50Hz sine wave	95~113	104~118	110~125	V
オフ電流 Off-state Current	IDRM	V _D =VDRM	MAX 10			μ A
ブレイクオーバー電流 Breakover Current	IBO		MAX 0.5			mA
保持電流 Holding Current	IH		TYP 50			mA
オン電圧 On-state Voltage	VT	IT=1A	MAX 1.6			V
スイッチング抵抗 Switching Resistance	Rs		MIN 0.1			k Ω
熱抵抗 Thermal Resistance	θ_{jl}	Junction to lead	MAX 20			°C/W

基板実装標準設計 Standard Design with P.C.B.

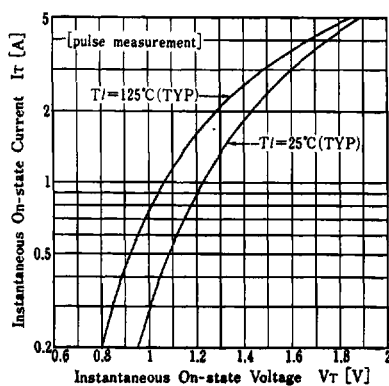
項目 Item	記号 Symbol	条件 Conditions	標準値 Standard	単位 Unit
実効オン電流 RMS On-state Current	IT	Assembled in P.C.B., Ta=25°C, soldering land 3mm ϕ	0.6	A

外形寸法図 Outline Dimensions

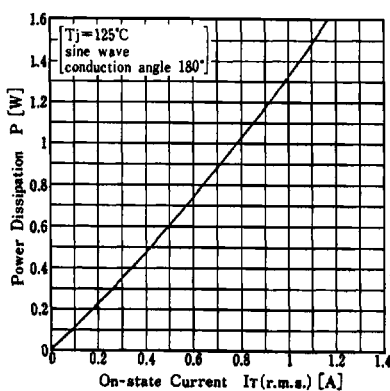


特性図 Characteristic Diagrams

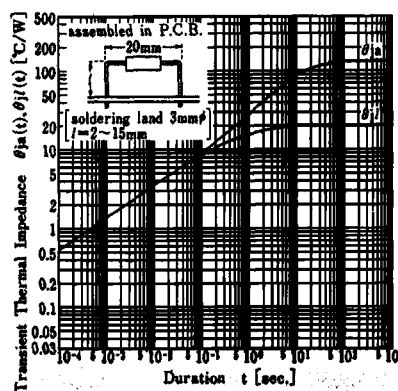
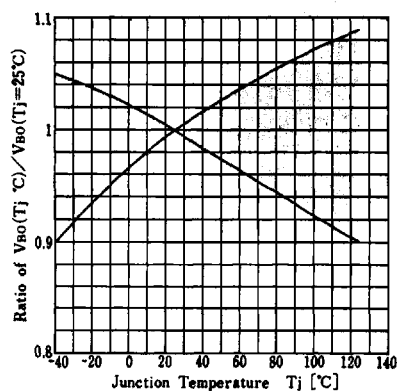
Typical On-state Voltage



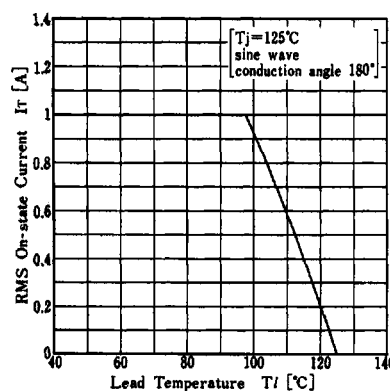
Power Dissipation



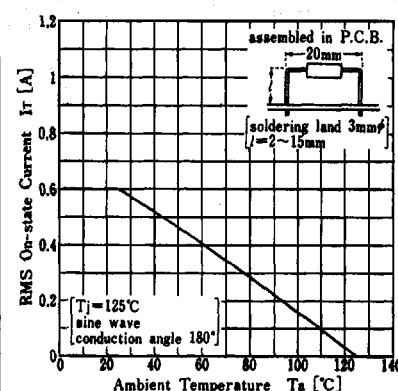
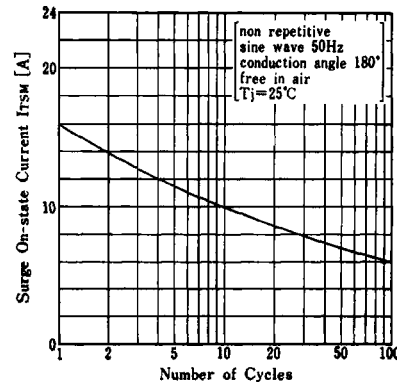
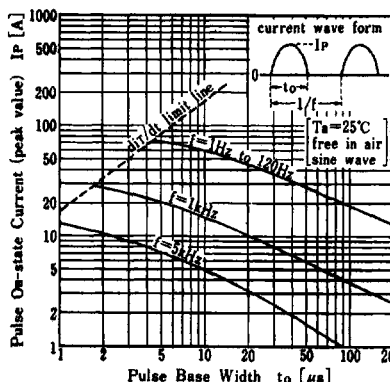
Transient Thermal Impedance

Breakover Voltage VS. T_j 

Max. Lead Temperature



Max. Ambient Temperature

Surge On-state Current (I_{TSM})Pulse On-state Current Rating (I_{TRM})Pulse On-state Current Derating (I_{TRM})