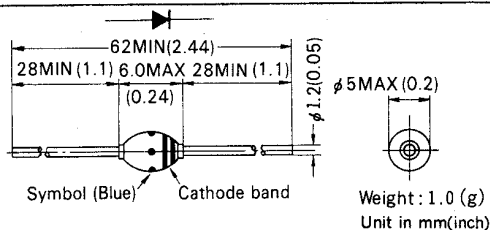


U19

V_{RRM} : 100V~400V
 $I_{F(AV)}$: 2.5A
 t_{rr} : 0.2 μ s



Type	Color of cathode band
U19B(100V)	Yellow
U19C(200V)	Black
U19E(400V)	Blue

■MAXIMUM ALLOWABLE RATINGS

Items	Type		U19B	U19C	U19E
	EIAJ No.		1SR91-100	1SR91-200	1SR91-400
Repetitive Peak Reverse Voltage	V_{RRM}	V	100	200	400
Non-Repetitive Peak Reverse Voltage	V_{RSM}	V	200	300	500
Average Forward Current	$I_{F(AV)}$	A	2.5 (Single-phase half sine wave 180° conduction) ($T_L=80^\circ\text{C}$, Lead length=10mm)		
Surge (Non-Repetitive) Forward Current	I_{FSM}	A	80 (Without PIV, 10msec conduction, $T_J=150^\circ\text{C}$ start)		
I^2t Limit Value	I^2t	A ² sec.	25.6 (Time=2~10msec, I=RMS Value)		
Operating Junction Temperature	T_J	$^\circ\text{C}$	-65~+150		
Storage Temperature	T_{SLG}	$^\circ\text{C}$	-65~+150		

* LEAD MOUNTING: LEAD TEMPERATURE 300 $^\circ\text{C}$ MAX. TO 3.2mm FROM BODY FOR 5SEC. MAX.

リードはんだ揚げ限界: はんだ温度300 $^\circ\text{C}$ 以下。ボディから3.2mmまで5秒以内。

** MECHANICAL STRENGTH: BENDING 90° $\times$ 2 Cycles, or 180° $\times$ 1 Cycle, TENSILE 3kg, TWIST 90° $\times$ 1 Cycle.

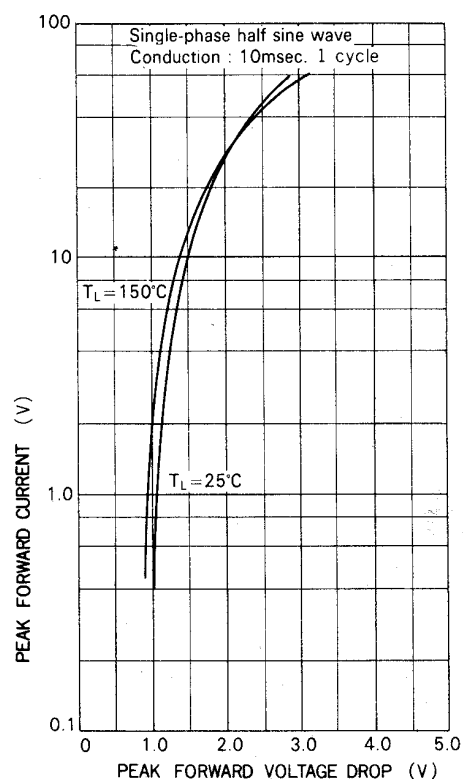
機械的強度: リード曲げ 90° 2回, 又は180° 1回, 引張り3kg, ねじり90° 1回。

■CHARACTERISTICS ($T_L=25^\circ\text{C}$)

Items	Symbols	Units	Min.	Typ.	Max.	Test Conditions
Peak Reverse Current	I_{RRM}	μA	—	2.0	10	All class, Rated V_{RRM}
Peak Forward Voltage	V_{FM}	V	—	—	1.3	$I_{FM}=2.5\text{A}$, Single-phase half sine wave 1 cycle
Reverse Recovery Time	t_{rr}	$\mu\text{sec.}$	—	—	0.2	$I_F=2\text{mA}$, $V_R=-15\text{V}$
Steady State Thermal Impedance	$R_{th(j-a)}$	$^\circ\text{C/W}$	—	—	50	Lead length=10mm
	$R_{th(j-l)}$				20	

順特性

FORWARD CHARACTERISTICS



平均順損失 (抵抗, 誘導負荷)

MAX. AVERAGE FORWARD POWER DISSIPATION

(RESISTIVE OR INDUCTIVE LOAD)

