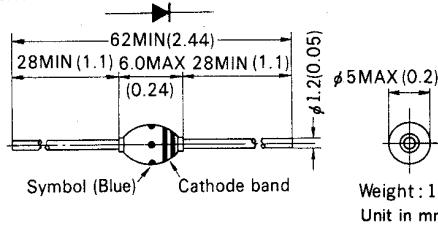


# U19

$V_{RRM}$  : 100V~400V  
 $I_{F(AV)}$  : 2.5A  
 $t_{rr}$  : 0.2 $\mu$ 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 <sup>2</sup> sec.	25.6 (Time=2~10msec, I=RMS Value)		
Operating Junction Temperature	$T_J$	°C	-65~+150		
Storage Temperature	$T_{stg}$	°C	-65~+150		

\* LEAD MOUNTING: LEAD TEMPERATURE 300°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°C以下。ホディーから3.2mmまで5秒以内。

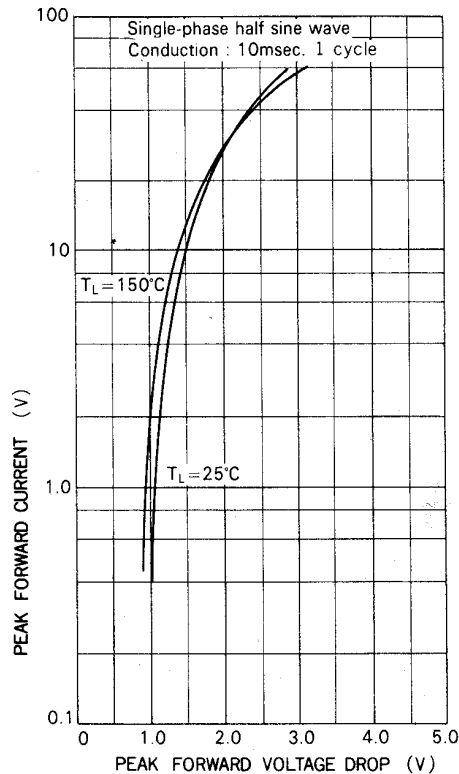
\*\* MECHANICAL STRENGTH: BENDING 90°×2 Cycles, or 180°×1 Cycle, TENSILE 3kg, TWIST 90°×1 Cycle.  
 機械的強度: リード曲げ90°2回, 又は180°1回, 引張り3kg, ねじり90°1回。

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

Items	Symbols	Units	Min.	Typ.	Max.	Test Conditions
Peak Reverse Current	$I_{RRM}$	$\mu\text{A}$	—	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	$R_{th(j-a)}$	°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)

