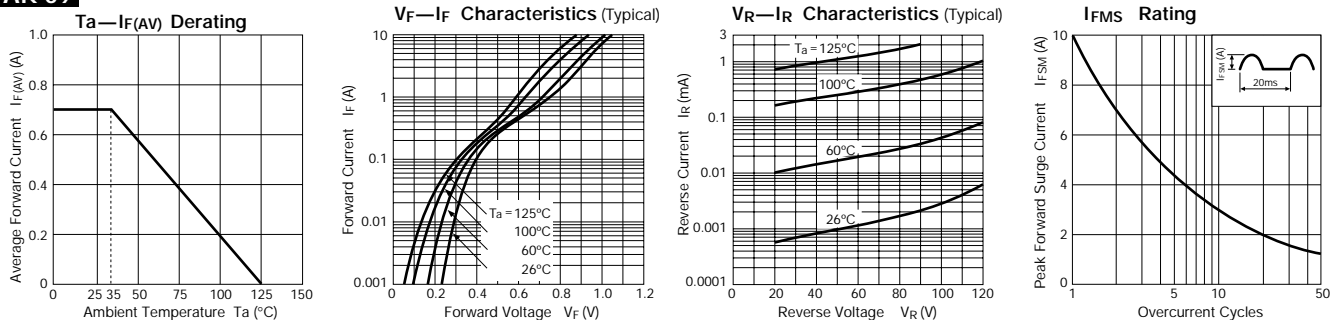


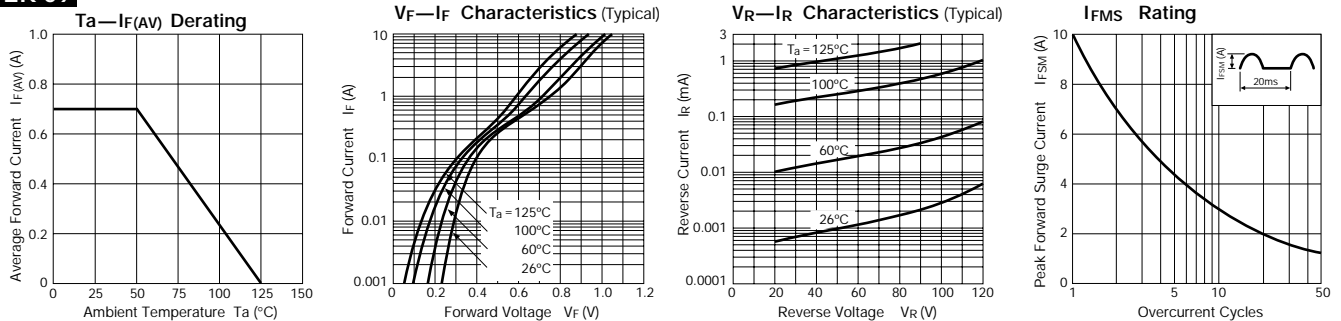
# Schottky Barrier Diodes 90V

Parameter  Type No.	Absolute Maximum Ratings					Electrical Characteristics (Ta = 25°C)							Others	
	VRM (V)	IF (AV) (A)	IFSM (A)	TJ (°C)	Tstg (°C)	VF (V)		IR (mA)	IR (H) (mA)	trr (ns)		Rth (j-ℓ)	Mass	Fig.
			50Hz Half-cycle Sinewave Single Shot			max	IF (A)	VR = VRM max	VR = VRM Ta = 100°C max		IF /IRP (mA)	(°C/W)	(g)	
AK 09	90	0.7	10	-40 to +150	0.81	0.7	1.0	5	100	100/100	22.0	0.13	Ⓐ	
EK 09											20.0		0.3	Ⓑ
EK 19											17.0			Ⓒ
RK 19		1.5	40			1.5	2.0	10			15.0	0.45	Ⓓ	
RK 39											12.0		0.6	Ⓔ
RK 49											8.0		1.2	Ⓕ

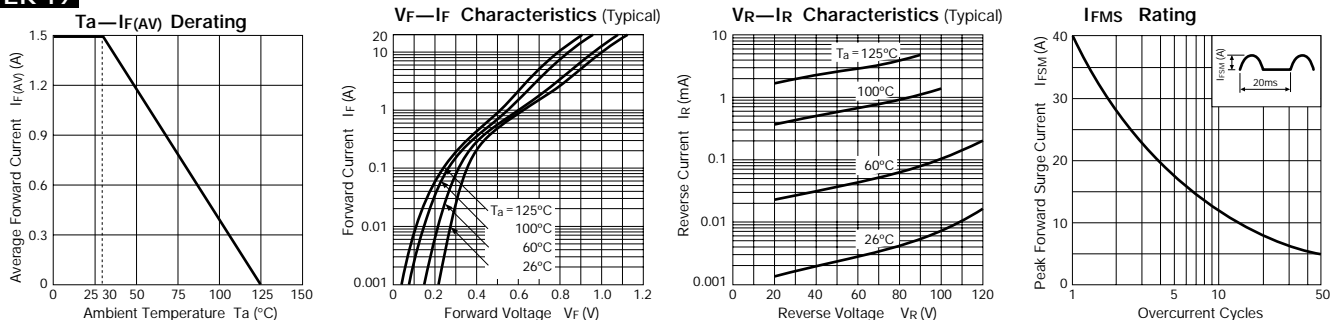
## AK 09



## EK 09



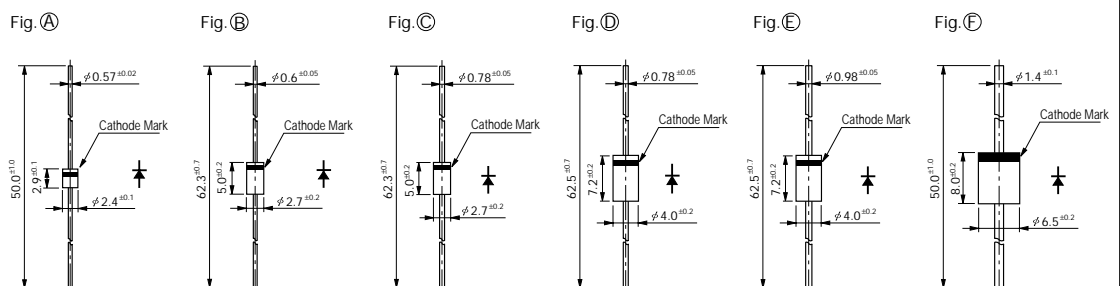
## EK 19

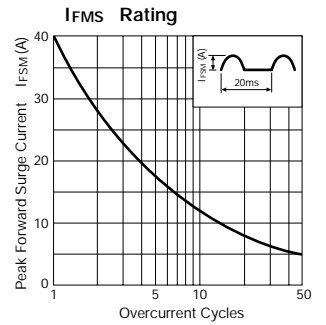
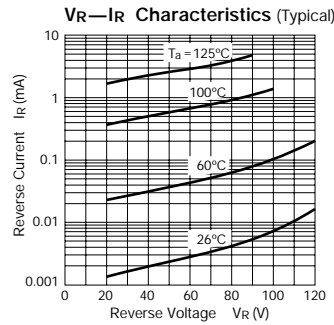
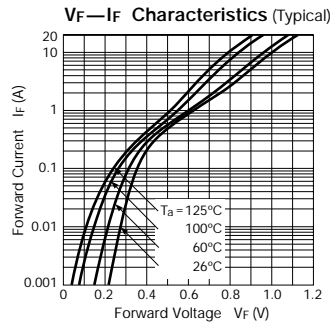
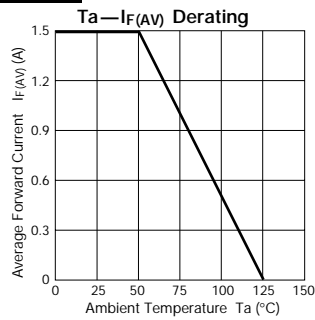
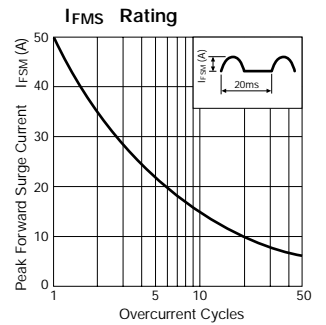
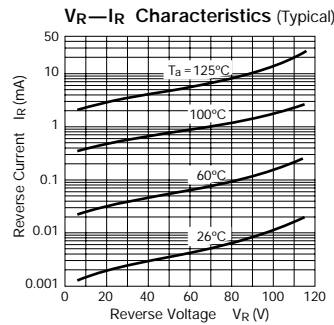
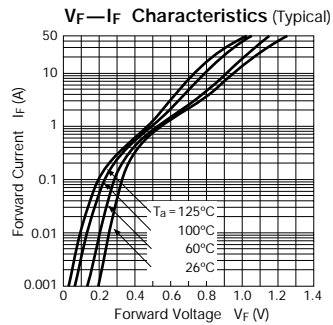
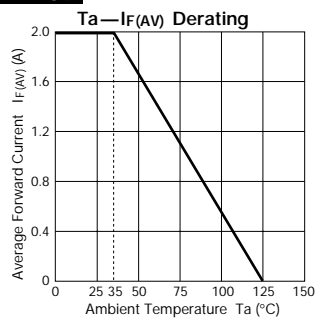


## External Dimensions

(Unit: mm)

Flammability:  
UL94V-0 or Equivalent



**RK 19****RK 39****RK 49**

**Ta—If(AV) Derating**  $V_R = 90V$

Average Forward Current  $I_F(AV)$  (A)

Ambient Temperature  $T_a$  (°C)

D.C.  
Sinewave  
 $t/T = 1/2$   
 $t/T = 1/3$   
 $t/T = 1/6$

**V<sub>F</sub>—I<sub>F</sub> Characteristics (Typical)**

Forward Current  $I_F$  (A)

Forward Voltage  $V_F$  (V)

$T_a = 125^\circ\text{C}$   
100°C  
60°C  
28°C

**V<sub>R</sub>—I<sub>R</sub> Characteristics (Typical)**

Reverse Current  $I_R$  (mA)

Reverse Voltage  $V_R$  (V)

$T_a = 125^\circ\text{C}$   
100°C  
60°C  
28°C

**I<sub>FMS</sub> Rating**

Peak Forward Surge Current  $I_{FSM}$  (A)

Overcurrent Cycles

$I_{FSM}$  (A)  
20ms

105