

OA90-R, 2-OA90, OA90A-R, 2-OA90A

Germanium Point Contact Type

Video Detector
FM-AM Detector

■ Features

- High η
- Matched pair available for FM detector 2-OA90, 2-OA90A

■ Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

Item	Symbol	Value	Unit
Reverse Voltage (DC)	V_R	15	V
Peak Reverse Voltage	V_{RM}	22.5	V
Forward Current (DC)	I_F	50	mA
Peak Forward Current	I_{FM}	150	mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}^*	400	mA
Storage Temperature	T_{stg}	$-55 \sim +75$	$^\circ\text{C}$

* $t \leq 1s$

■ Electrical Characteristics ($T_a=25^\circ\text{C}$)

Item	Symbol	Condition	min.	typ.	max.	Unit
Forward Current (DC)	I_F	$V_F = 1\text{ V}$	4	10		mA
Reverse Current (DC)	I_R	$V_R = 10\text{ V}$		15	150	μA
		$V_R = 22.5\text{ V}$		50	800	μA
Detection Efficiency	η	$f = 30\text{ MHz}$, $R_L = 3.9\text{ k}\Omega$ $C_L = 10\text{ pF}$, $V_i = 2\text{ Vrms}$	50			%

■ Cathode Indications

Type No.	OA 90-R/OA 90 A-R	2-OA 90/2-OA 90A
Color	Black (one band)	Black (two bands)

■ Package Dimensions

