

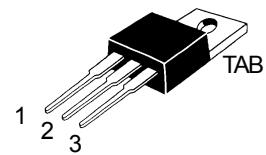
Switchable Current Regulators

**IXCP10M90S
IXCY10M90S**

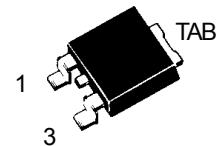
**V_{AK} = 900 V
I_{A(P)} = 1 - 100 mA
R_{DYN} = 100 kΩ**

Symbol	Test Condition	Maximum Ratings	
V _{AKR}	T _J = 25°C to 150°C	900	V
V _{AGR}	T _J = 25°C to 150°C	900	V
V _{GK}		±20	V
I _D	T _c = 25°C	-0.3	A
P _D	T _c = 25°C	40	W
T _J T _L T _{stg}	Temperature for Soldering (max. 10 s)	-55 ... +150 -55 ... +150 260	°C °C °C
M _D	Mounting torque with screw M3 (TO-220) with screw M3.5 (TO-220)	0.45/4 0.55/5	Nm/lb.in. Nm/lb.in.

TO-220 AB
(IXCP)



TO-252 AA
(IXCY)



Pin connections

- 1 = Gate(G), Control terminal;
- 2 and tab = A (+) Positive terminal
- 3 = K (-), Negative terminal

Symbol	Test Condition	Characteristic Values		
		(T _J = 25°C unless otherwise specified)	min.	typ.
V _{AKR}	R _K = 300 Ω, (Fig. 1)	900		V
I _{A(P)}	V _D = 10 V; R _K = 300 Ω; (Fig. 2)	7	9	15 mA
V _{GK(off)}	I _D = 100 μA; V _D = 900 V Fig. 4	-5		V
I _{D(P)}	V _D = 720 V; V _{GK} = -10 V (Fig. 1)		25	μA
ΔV _{AK} /Δ I _{A(P)}	Dynamic resistance; V _D = 10 V R _K = 300 Ω; (Fig. 1)	100		kΩ
R _{thJC} R _{thJA}	Thermal Resistance junction-to-case Thermal Resistance junction-to-ambient	TO-220 TO-252	3.1 K/W 80 K/W 100 K/W	

Features

- Minimum of 900 V breakdown
- Resistor programmable current source
- 40 W continuous dissipation
- International standard packages JEDEC TO-220 and TO-252
- On/Off switchable current source

Applications

- Highly stable voltage sources
- Current surge limiters
- Transient voltage protection
- Instantaneously reacting resetable fuses
- Soft start-up circuits