



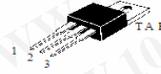
**Switchable Current
Regulators**

**IXCP10M90S
IXCY10M90S**

$V_{AK} = 900\text{ V}$
 $I_{A(P)} = 1 - 100\text{ mA}$
 $R_{DYN} = 100\text{ k}\Omega$

Symbol	Test Condition	Maximum Ratings
V_{AKR}	$T_J = 25^\circ\text{C to } 150^\circ\text{C}$	900 V
V_{AGR}	$T_J = 25^\circ\text{C to } 150^\circ\text{C}$	900 V
V_{GK}		≈ 20 V
I_D	$T_C = 25^\circ\text{C}$	-0.3 A
P_D	$T_C = 25^\circ\text{C}$	40 W
T_J		-55 ... +150 $^\circ\text{C}$
T_{Jg}		-55 ... +150 $^\circ\text{C}$
T_L	Temperature for Soldering (max. 10 s)	260 $^\circ\text{C}$
M_D	Mounting torque with screw M3 (TO-220) with screw M3.5 (TO-220)	0.45/4 Nm/lb.in. 0.55/5 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

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 resettable fuses
 Soft start-up circuits

Symbol	Test Condition	Characteristic Values		
		$(T_J = 25^\circ\text{C unless otherwise specified})$		
		min.	typ.	max.
V_{AKR}	$R_K = 300\ \Omega$, (Fig. 1)		900	
$I_{A(P)}$	$V_D = 10\text{ V}$; $R_K = 300\ \Omega$, (Fig. 2)		7	15
$V_{GK(off)}$	$I_{Pg} = 100\ \mu\text{A}$; $V_D = 900\text{ V}$		-5	
$I_{D(P)}$	$V_D = 720\text{ V}$; $V_{GK} = -10\text{ V}$ (Fig. 1)			25
$\frac{\Delta V_{AK}}{\Delta I_{A(P)}}$	Dynamic resistance: $V_D = 10\text{ V}$ $R_K = 300\ \Omega$, (Fig. 1)		100	
R_{thJC}	Thermal Resistance junction-to-case			3.1 K/W
R_{thJA}	Thermal Resistance junction-to-ambient TO-220 TO-252			80 K/W 100 K/W

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)