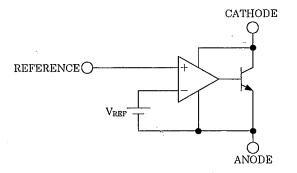


BLOCK DIAGRAM



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ABSOLUTE MAXIMUM RA	(Ta=25°C)			
PARAMETER	SYNBOL	RATINGS	UNIT	
Cathode Voltage	V _{KA}	+20	V	
Continuous Cathode Current	IKA	-100~150	mA	
Reference Input Current	I _{REF}	-0.05~10	mA	
Power Dissipation	P _D	(DIP8) 700 (DMP8) 300 (EMP8) 300 (TO-92) 500 (SOT-89) 350 (MTP-5) 200	mW	
Operating Temperature	Topr	-40~+85	°C	
Storage Temperature	Tstg	-50~+150	℃ 	

RECOMMENDED OPERATING CONDITION

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
Cathode Voltage	VKA	V_{REF}	—	18	V
Cathode Current	Iĸ	1	-	100	mA

ELECTORICAL CHARACTERISTICS (I_K=10mA,Ta=25°C)

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Deference Veltere	V _{REF}	$V_{KA} = V_{REF}(*1)$	2415	2465	2515	mV
Reference Voltage		V _{KA} =V _{REF} (*1)、A Version	2440	2465	2490	
Reference Voltage	∠V _{REF} /	$ V_{REF} \leq V_{KA} \leq 10V(*2)$		±1.4	±2.7	mV/V
Change vs. Cathode Voltage Change		10≦V _{KA} ≦18V(* 2)	_	±1	±2	mV/V
Reference Input Current	I _{REF}	R1=10kΩ,R2=∞(* 2)	-	2	4	μA
Minimum Input Current	IMIN	$V_{KA}=V_{REF}(*1)$	-	0.4	1.0	mA
Cathode Current (Off Cond.)	IOFF	V _{KA} =18V,V _{REF} =0V(* 3)		0.1	1.0	μA
Dynamic Impedance	Z _{KA}	V _{KA} =V _{REF} ,f≦1kHz 1mA≦lk≦100mA(* 1)		0.2		Ω

■TEMPERATURE CHARACTERISTICS (I_k=10mA,Ta=-20~+85°C)

PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Reference Voltage Change	⊿V _{REF}	V _{KA} =V _{REF} (*1)		8	17	mV
Reference Input Current Change	⊿I _{REF}	R1=10kΩ,R2=∞(* 2)	-	0.4	1.2	μA

The "Reference Voltage Change" and "Reference Input Current Change" is tested to using some samples of the first five lots. These "TEMPERATURE CHARACTERISTICS" are not guaranteed.

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| V_{REF} | …Reference voltage includes error.

(*1): TEST CIRCUIT1(Fig.1)

(*2): TEST CIRCUIT2(Fig.2)

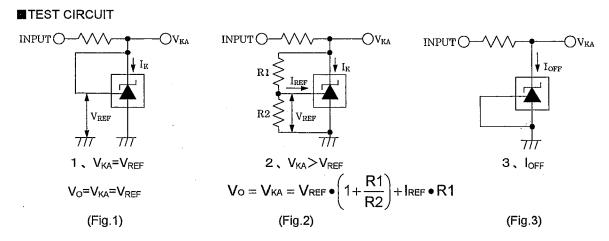
(*3): TEST CIRCUIT3(Fig.3)

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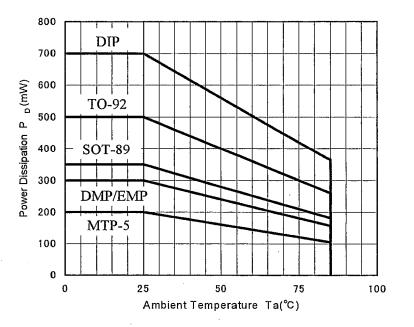
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6-207



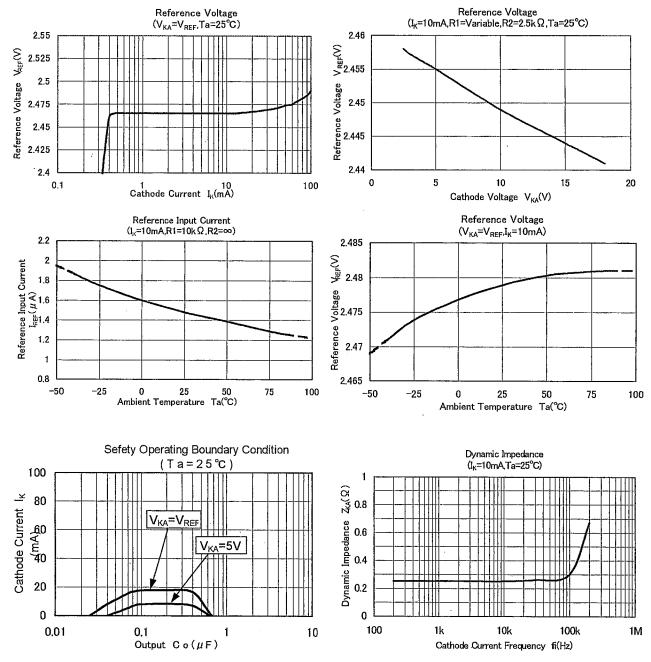
POWER DISSIPATION VS. AMBIENT TEMPERATURE



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TYPICAL CHARACTERISTICS



Note)Oscillation might occure while operating within the range of safety curve.

So that, it is necessary to make ample margins by taking considerations of fluctuation of the device



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MEMO

[CAUTION] The specifications on this databook are only given for information , without any guarantee as regards either mistakes or omissions. The application circuits in this databook are described only to show representative usages of the product and not intended for the guarantee or permission of any right including the industrial rights.

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