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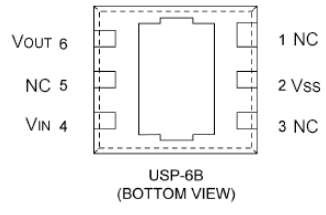
XC6206 Series

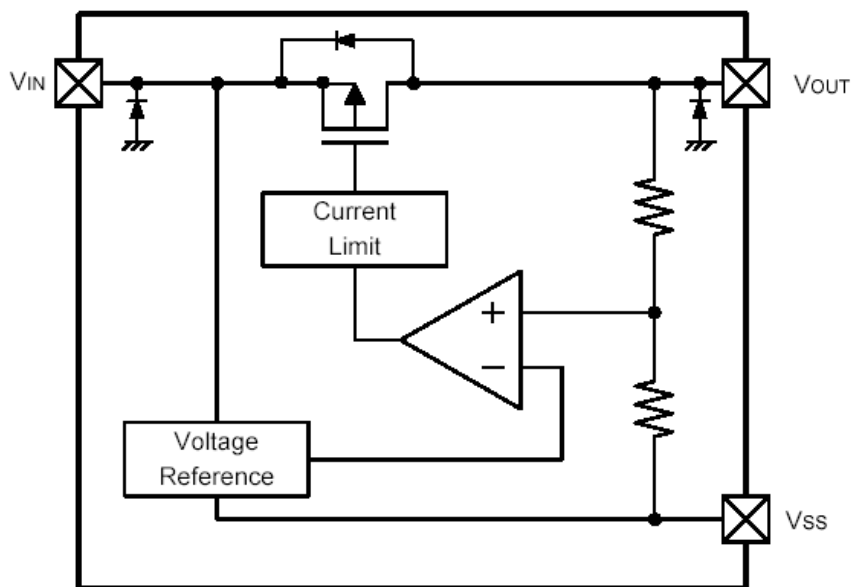
ETR0305_003a

Low ESR Cap. Compatible Positive Voltage Regulators

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TYPICAL APPLICATION CIRCUIT





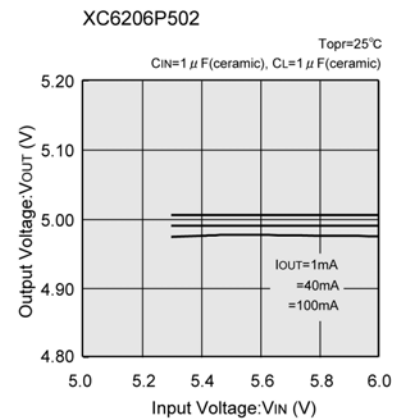
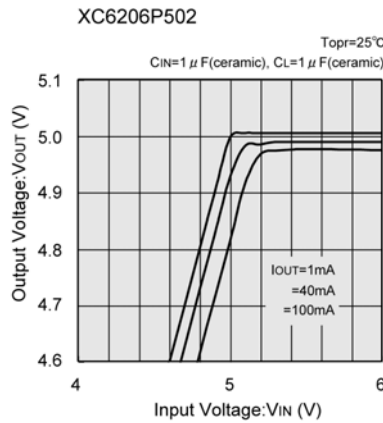
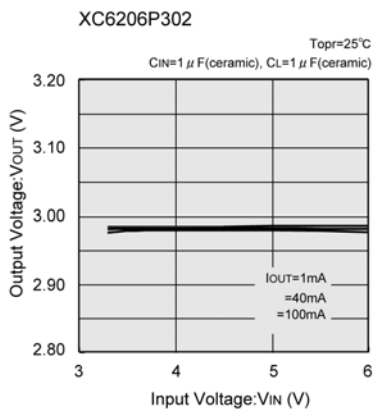
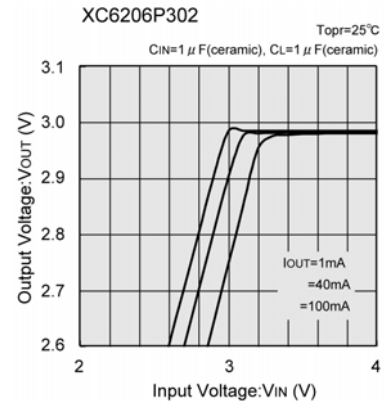
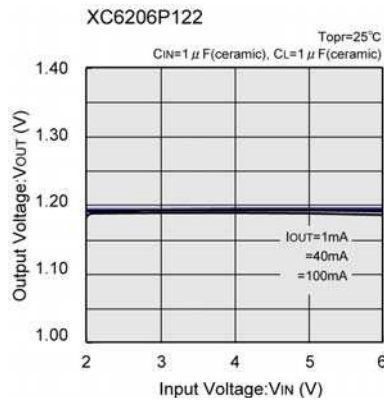
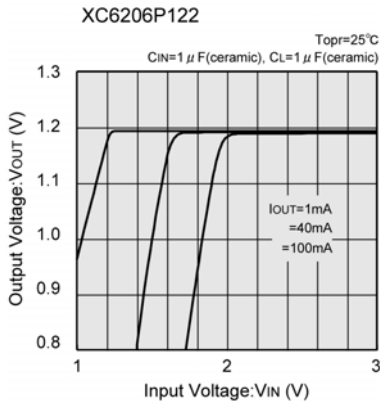
Ta=25°C

PARAMETER	SYMBOL	RATINGS	UNITS
Input Voltage	V _{IN}	7.0	V
Output Current	I _{OUT}	500 *	mA
Output Voltage	V _{OUT}	V _{SS} - 0.3 ~ V _{IN} + 0.3	V
Power Dissipation	SOT-23	250	mW
	SOT-89	500	
	USP-6B	100	
	TO-92	300	
Operating Temperature Range	T _{opr}	- 40 ~ + 85	°C
Storage Temperature Range	T _{stg}	- 55 ~ + 125	°C

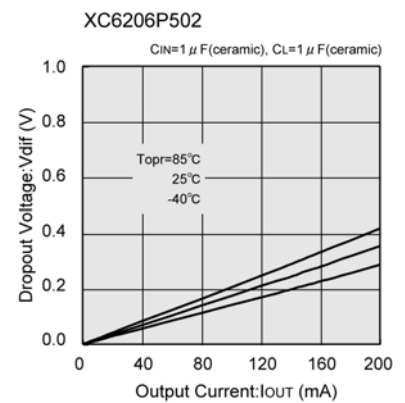
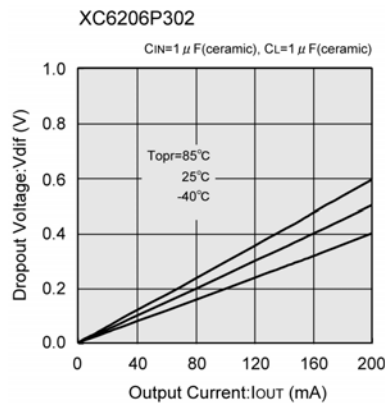
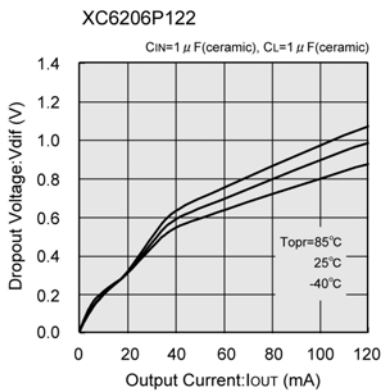
XC6206 Series

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS	CIRCUIT
Output Voltage ^(*)	V _{OUT(E)} ^(*)	I _{OUT} =30mA	x 0.98	V _{OUT(T)} E-1	x 1.02	V	

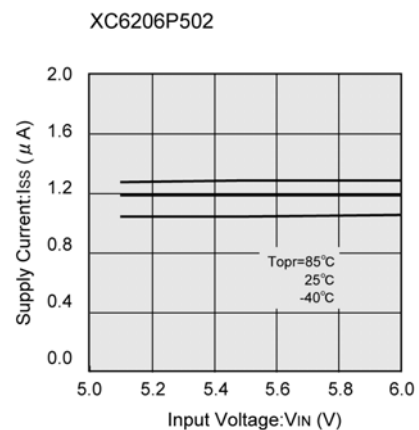
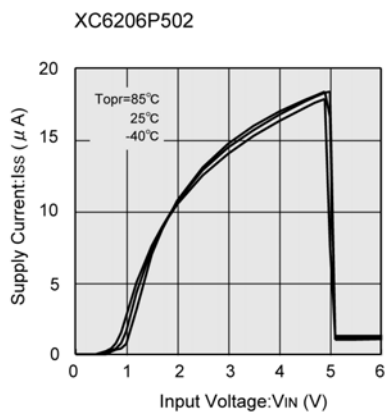
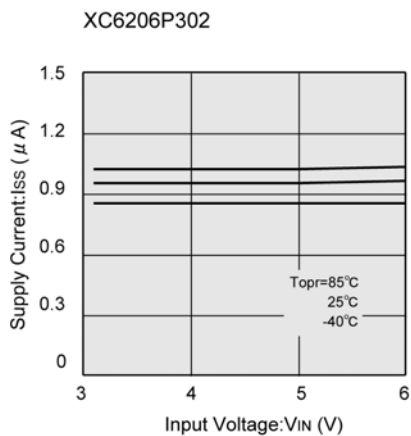
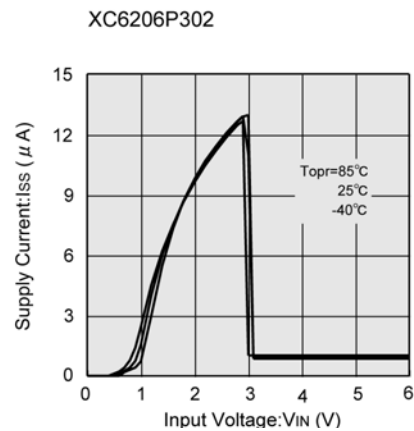
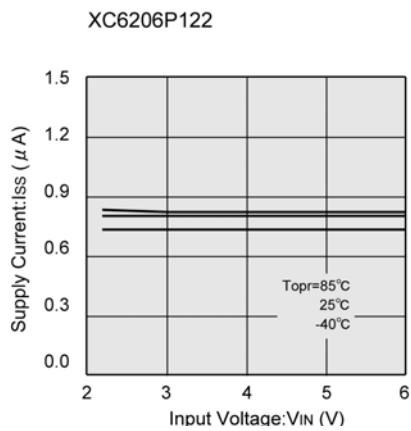
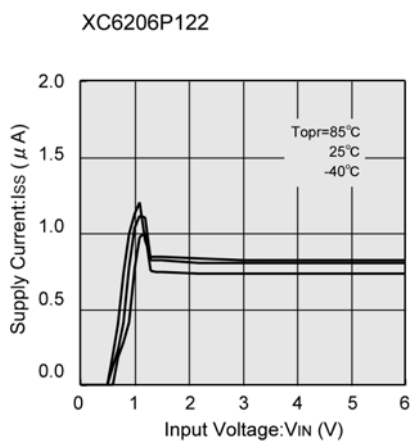
(3) Output Voltage vs. Input Voltage



(4) Dropout Voltage vs. Output Current



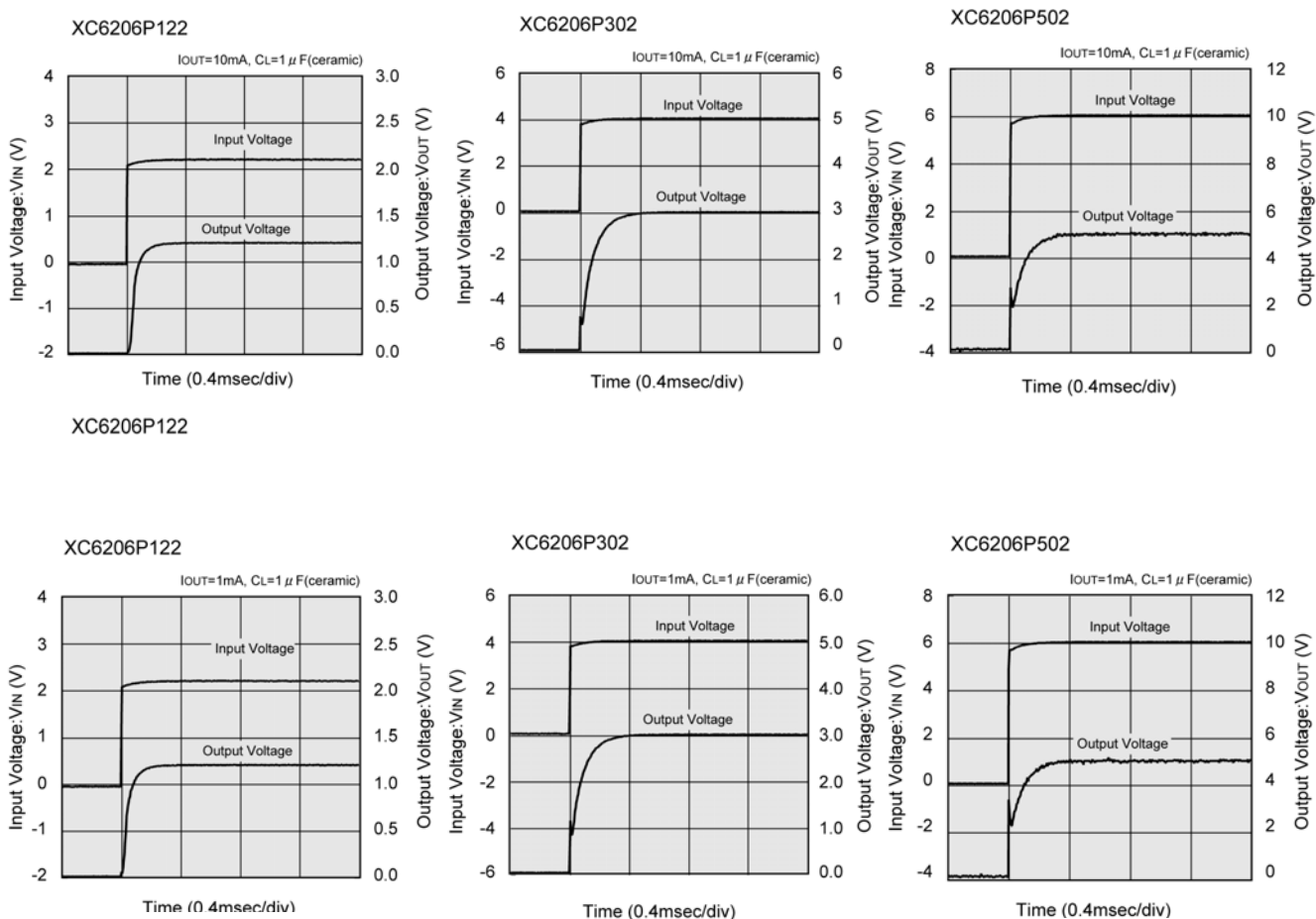
(5) Supply Current vs. Input Voltage



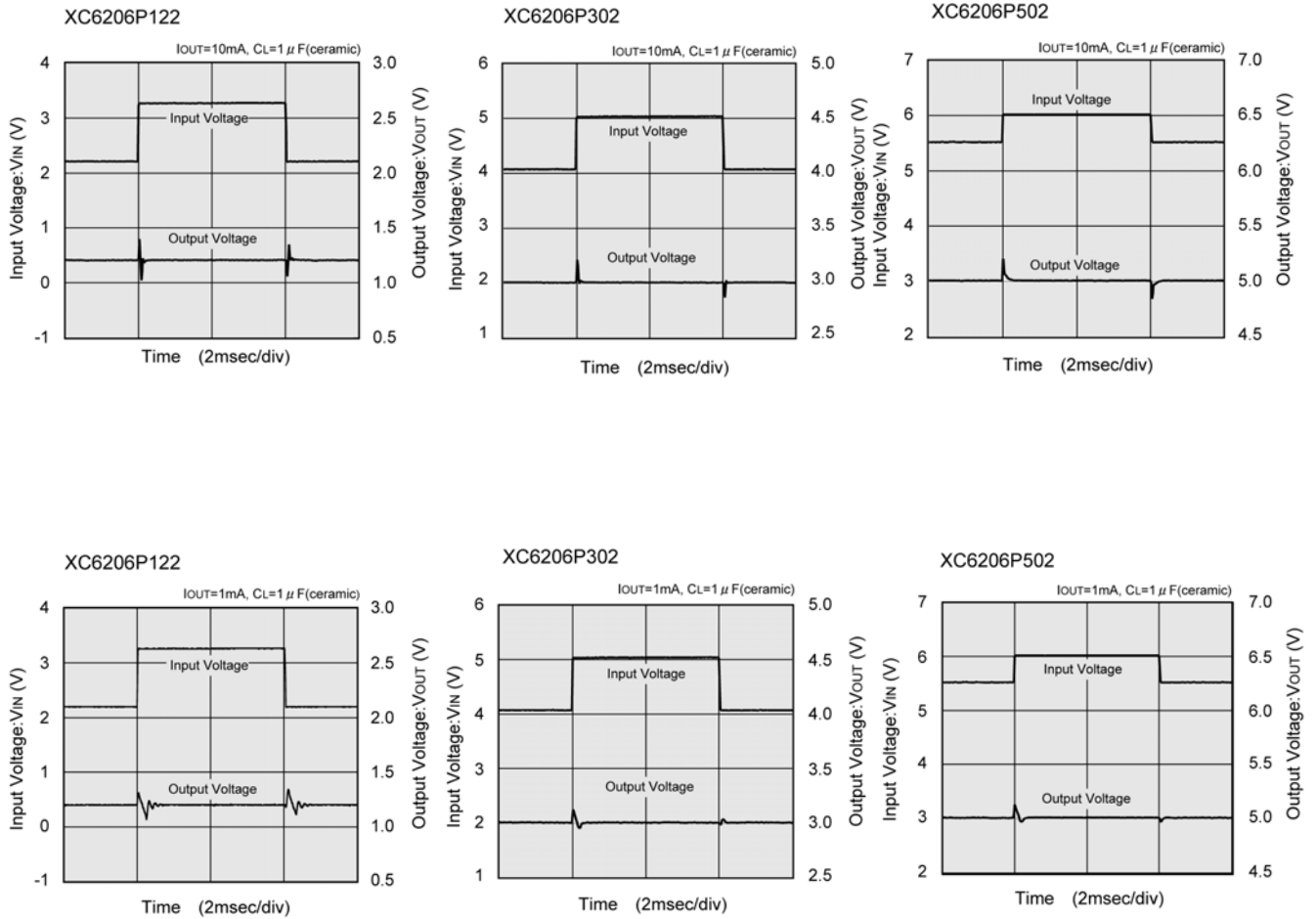
(6) Output Voltage vs. Ambient Temperature

(7) Output Voltage vs. Ambient Temperature

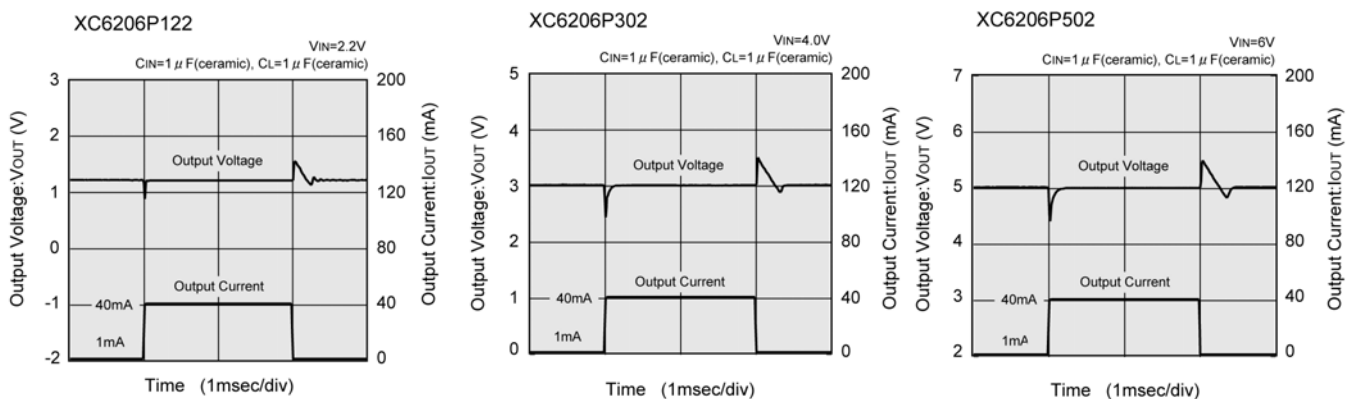
(8) Input Transient Response 1



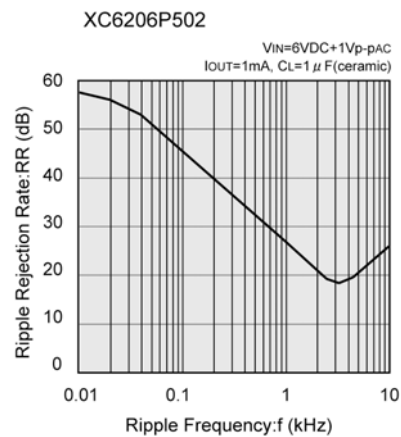
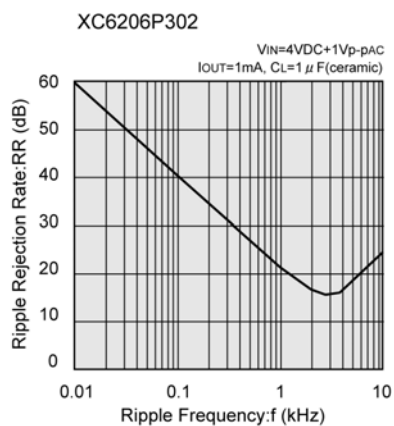
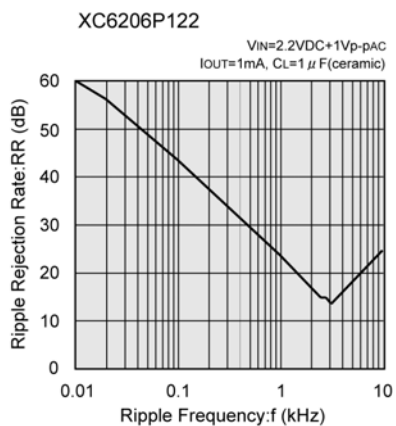
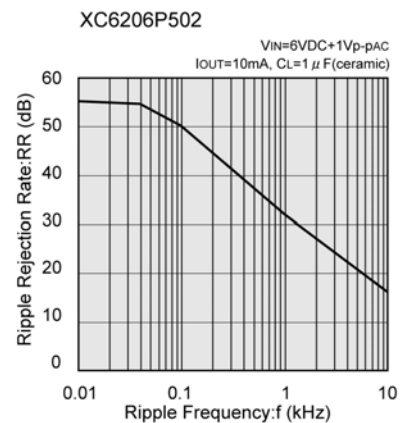
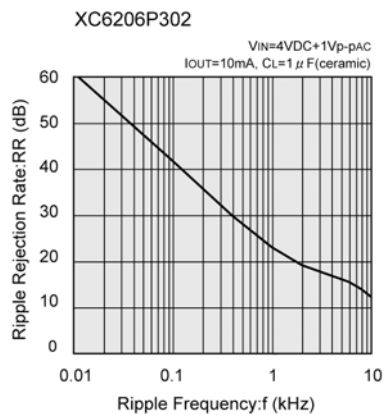
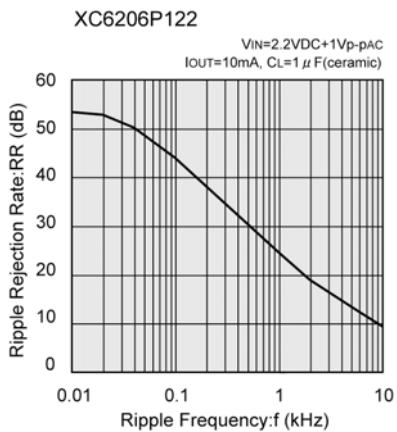
(9) Input Transient Response 2

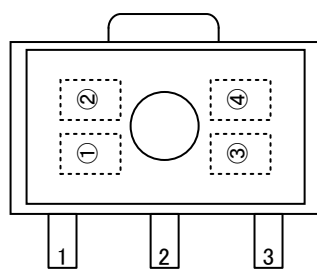


(10) Load Transient Response



(11) Ripple Rejection Rate





SOT-89
(TOP VIEW)

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