

REGULATOR

( ) は暫定仕様 ( ) means temporary

Function	Type No.	Vin (V) max	Icc (mA) max	Fmax (kHz) max	RREJ (dB) typ	Topr (°C)	Status		Terminal	Remarks
							DILP	SOP		
Switching Regulator	HA16654APS	40	13	500	—	-20 ~ +85	○		8	Suitable for forward method Voltage mode
	HA16664AFP	40	7	200	—			○	14	Suitable for forward method Voltage mode
	HA16664APS						○		8	Suitable for forward method Voltage mode
	HA16666P	40	12	600	—	-20 ~ +85	○		16	Suitable for forward method Voltage mode
	HA16666FP							○	16	Timer latch fail safe, voltage mode
	HA16107P							○	16	Both forward and flyback method available
	HA16107FP							○	16	ON/OFF timer latch fail safe, voltage mode
	HA16108P							○	16	Both forward and flyback method available
	HA16108FP	34	20	600	—	-20 ~ +85		○	16	Timer latch fail safe
	HA16109P							○	16	Both forward and flyback method available
	HA16109FP							○	16	Timer latch fail safe
	HA16111P							○	16	Both forward and flyback method available
	HA16111FP							○	16	Current mode type AC/DC
	HA17384DPS							※	8	OVP+TSD
	HA17384EPS	(30)	(13)	(500)	—	(-20 ~ +85)		※	8	
	HA17385EPS							※	8	
	HA17451AP	40	2.6	300	—	-20 ~ +85		○	16	Without latch circuit from S.C.P of HA17451
	HA17451AFP							○	16	
	HA16114P/FP/FPJ	40	11	600	—	-20 ~ +85		○	16	1 ch step down/negative output DC-DC
	HA16120FP/FPJ							○	16	1 ch step up DC-DC
HA16116FP/FPJ	40	20.5	600	—	/-40 ~ +85		○	20	2 ch step down/negative output DC-DC	
HA16121FP/FPJ							○	20	2 ch step up/step down/negative output DC-DC	
HA17524P	40	10	450	—	-20 ~ +75		○	16	Can select single end or push-pull	
HA17524FP							○	16		
Watch dog timer	HA1835P	-0.3 - Vout	12	—	75	-40 ~ +85	○		14	
	HA16103PJ	40	12	—	75	-40 ~ +85	○		18	Low voltage detection
	HA16103FPJ							○	20	
	HA16113FPJ	40	15	—	75	-40 ~ +85		○	24	2 ch type of HA16103
	HA16129FPJ	40	13	—	75	-40 ~ +85		○	20	1 ch type, output voltage 5.0±1.5%, fail safe function built-in
	HA16117FA/FB/FC							○	8	CMOS
HA16117FPA/FPB/FPC	14	0.6	—	—	—	-30 ~ +85		○	8	4.4, 4.2 and 4.0V type detection voltage
HA16117FPAJ/FPBJ/FPCJ						-40 ~ +85		○	8	
Precision Regulator	HA17723					0 ~ +70	○		14	Series/Parallel dropper regulator
	HA17723P	40	4	—	74	-20 ~ +75	○		14	DC/DC converter, etc
	HA17723F					0 ~ +70	○		14	

注) Notes)  
 ※顧客限定 ※Provided to the limited customers

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Type No.	Vcc (V)	Ioff max (mA)	Vref (V)			Ik max (mA)	Topr (°C)	Package (Pin)				Status
			min	typ	max			DILP	SOP	SIP (TO-92M)	UPAK	
HA17431P	40	1	2.395	2.495	2.595	-100 ~ +150	-20 ~ +85			3		○
HA17431FP								8				○
A version (2.495 V±2.2%)												
Type No.	Vcc (V)	Ioff max (mA)	Vref (V)			Ik max (mA)	Topr (°C)	Package (Pin)				Status
			min	typ	max			DILP	SOP	SIP (TO-92M)	UPAK	
HA17431PA										3		○
HA17431FPA*	40	1	2.440	2.495	2.550	-100 ~ +150	-20 ~ +85		8			○
HA17431UA*											3	○
New version (2.500 V±1%) *: ±1.5% available												
Type No.	Vcc (V)	Ioff (mA) max	Vref (V)			Ik max (mA)	Topr (°C)	Package (Pin)		Status		
			min	typ	max			MPAK5	TO-92			
HA17431VLP								5		○		
HA17431VP	16	1	2.475	2.500	2.525	-50 ~ 50			3	○		
HA17431VPJ						-40 ~ +85			3	○		