

LM5026 Isolated Active Clamp Forward

Designator	Description	Manufacturer	PartNumber	Quantity
!PCB1	Printed Circuit Board	Any	PMP7892	1
C1, C6	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in BOM report	DNP2	2
C2, C3, C4, C5	CAP, AL, 1500uF, 16V, +/-20%, 0.06 ohm, SMD	Panasonic	EEV-FK1C152Q	4
C7	Ceramic, X7R, 250V, 10%	TDK	C3216X7R2E104K	1
C8	CAP, AL, 100uF, 80V, +/-20%, 0.32 ohm, SMD	Panasonic	EEV-FK1K101Q	1
C9, C10, C11, C12	CAP, CERM, 4.7uF, 100V, +/-20%, X7S, 1210	TDK	C3225X7S2A475M	4
C13, C14	CAP, CERM, 0.01uF, 1000V, +/-10%, X7R, 1210	Vishay-Vitramon	VJ1210Y103KXGAT5Z	2
C15, C18	Ceramic, C0G/NP0, 100V, 1%	AVX	08051A101FAT2A	2
C16, C17	Ceramic, X7R, 50V, 10%	TDK	C2012X7R1H104K	2
C19	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0805	TDK	C2012X7R1E105K	1
C20, C21	CAP, CERM, 0.33uF, 16V, +/-10%, X7R, 0805	TDK	C2012X7R1C334K	2
C22	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0805	TDK	C2012X7R1E104K	1
C23	Ceramic, X7R, 10V, 20%	TDK	C2012X7R1A475M	1
C24	Ceramic, X7R, 16V, 10%	TDK	C2012X7R1C105K	1
C25, C26	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0805	TDK	C2012X7R2A104K	2
C101	CAP, CERM, 100pF, 250V, +/-5%, C0G/NP0, 0805	MuRata	GRM21A5C2E101JW01D	1
D1, D3	Diode, Switching, 300V, 225mA, SOD-123	Diodes Inc	BAV3004W-7-F	2
D2, D4	Diode, Ultrafast, 300V, 20A, TO-263	Power Integrations	LBQA20B300C	2
D5, D6	Diode, Ultrafast, 100V, 0.15A, SOD-123	Diodes Inc.	1N4148W-7-F	2
D101	Diode, Zener, 3.3V, 225mW, SOT-23	ON Semiconductor	BZX84C3V3ET1G	1
D102	Diode, Zener, 9.1V, 250mW, SOD-323	Central Semiconductor	CMDZ9L1	1
FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	3
H1, H2, H5, H6	Standoff, Hex, 0.5"L #4-40 Nylon	Keystone	1902C	4
H3, H4, H7, H8	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	B&F Fastener Supply	NY PMS 440 0025 PH	4
HS1, HS2	Heat Sink TO-263	AAVID Thermalloy	7106DG	2
J1, J2, J3, J4	Terminal, Turret, TH, Triple	Keystone	1598-2	4
J5, J6, J7, J8	Connector, RF Jack, Vertical, Gold, SMD	Amphenol	A-1JB	4
L1	Inductor, Ferrite, 22uH	Coilcraft	PA6310-AL	1
L2	Inductor, Shielded Drum Core, Ferrite, 3.3mH, 0.1A, 9.5 ohm, SMD	Coilcraft	LPS6235-335MLB	1
LBL1	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	Brady	THT-14-423-10	1
Q1	MOSFET, N-CH, 100V, 63A, PG-TDSON-8	Infineon Technologies	BSC109N10NS3	1
Q2	MOSFET, P-CH, -150V, -0.7A, SO-8	Vishay-Siliconix	IRF6217TRPBF	1
Q101	Transistor, NPN, 100V, 4.5A, SOT-23	Diodes Inc.	ZXTN19100CFFTA	1
R1, R2	RES, xxx ohm, x%, xW, [PackageReference]	Used in BOM report	DNP1	2
R3	RES, 49.9k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080549K9FKEA	1
R4	RES, 0.1 ohm, 5%, 0.25W, 1206	Panasonic	ERJ-8RSJR10V	1
R5	RES, 8.06k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW08058K06FKEA	1
R6	RES, 3.32 ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW08053R32FKEA	1
R7	RES, 2.43k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW08052K43FKEA	1
R8	RES, 100 ohm, 5%, 0.125W, 0805	Vishay-Dale	CRCW0805100RJNEA	1
R9	RES, 37.4k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080537K4FKEA	1
R10	1%, 0.125W	Vishay-Dale	CRCW080520K0FKEA	1
R11	RES, 51 ohm, 5%, 0.125W, 0805	Vishay-Dale	CRCW080551R0JNEA	1
R12	1%, 0.125W	Vishay-Dale	CRCW08058K66FKEA	1
R13	1%, 0.125W	Vishay-Dale	CRCW08051k00FKEA	1

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R14, R15, R16, R17	RES, 49.9 ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080549R9FKEA	4
R101	RES, 51 ohm, 5%, 0.25W, 1206	Vishay-Dale	CRCW120651R0JNEA	1
R102	RES, 47k ohm, 5%, 0.125W, 0805	Vishay-Dale	CRCW080547K0JNEA	1
T1	EP17 Power Transformer	Coilcraft	PA6296-AL	1
T2	SMT Current Sense Transformer	Pulse Engineering	PA1005.100NL	1
TP1, TP3	Test Point, TH, Multipurpose, Red	Keystone	5010	2
TP2, TP4, TP6	Test Point, TH, Multipurpose, Black	Keystone	5011	3
TP5	Test Point, TH, Multipurpose, White	Keystone	5012	1
U1	Active Clamp Current Mode PWM Controller, 16-pin TSSOP	National Semiconductor	LM5026MT	1
U2	IC, Optocoupler, 5000V, 80-160% CTR	Fairchild Optoelectronics Group	FOD817ASD	1
U3	Low-Voltage (1.24V) Adjustable Precision Shunt Regulators, 3-pin SOT-23, Pb-Free	National Semiconductor	LMV431AIMF/NOPB	1

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