

MC33HB2000FKR2 :Part Detail

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General Information

Part Number	MC33HB2000FKR2
Description	H-Bridge, SPI, Brushed DC Motor Driver, 5-28V, 10A, Cur FB, Sleep, SM-8, PQFN 8x8 32, Reel
Product Line	GHB2000P
PTI	ANTF
Material Type	Tested Packaged Device
Life Cycle Description (code)	PRODUCT RAPID GROWTH
Status	Active
SafeAssure Functional Safety	ISO 26262
Application/Qualification Tier	AUTO; >=10 YEARS APPLICATION LIFE

Package Information

Package Type and Termination Count	QFN-EP 32
Package Description and Mechanical Drawing	PWR QFN 32 8SQ*2.1P0.8
Device Weight(g)	0.37305
Package Material	Plastic
Mounting Style	Surface Mount
Package Length (nominal)(mm)	8.000
Package Width (nominal)(mm)	8.000
Package Thickness (nominal)(mm)	2.100
Maximum Height Above Board(mm)	2.200
Tape & Reel	Yes

Environmental and Compliance Information

Pb-Free	No
RoHS Compliant	
RoHS technical exemption(s)	7a
Halogen Free	Yes

[Material Composition Declaration](#)
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RoHS Certificate of Analysis (CoA)	Contact Us
2nd Level Interconnect	e4
Moisture Sensitivity Level (MSL)	3
Floor Life	168 HOURS
Peak Package Body Temperature (PPT)(°C)	260
Maximum Time at Peak Temperature (s)	40
Number of Reflow Cycles	3
REACH SVHC	NXP REACH Statement
UL94 (plastics flammability test)	V0;Burning stops within 10 seconds on a vertical specimen;no drips allowed

Manufacturing Information

Micron Size(μm)	.27
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Ordering Information

Minimum Package Quantity (MPQ)	2000
MPQ Container	REEL
Exempt from Minimum Delivery Value	Yes
Preferred Order Quantity (POQ)	2000
POQ Container	REEL
Export Control Classification Number (US)	EAR99
Harmonized Tariff (	
CCATS Document	-
ENC Status	-
Other Trade Compliance Documents	-
Budgetary Price excluding tax(US Currency	1000 @ US each
Order	Similar Samples

Operating Characteristics

Additional Features-Analog	Diagnostics Reporting
Ambient Operating Temperature (Min-Max) (°C)	-40 to 125
Device Function	H-Bridge
Diagnostics	SPI Status Flag
Interface and Input Control	Parallel SPI

Load Supply Voltage (Max) (V) (Max) (V)	28
Load Supply Voltage (Min) (V) (Min) (V)	5
Power Output Load - Load Current (Max) (A) (IL)	10
Power Output Load - Load Current (Typ) (A) (IL)	3
Power Output Load - Number of Channels	2
Protection	Open Load Output Short to Ground Overvoltage Thermal Foldback Thermal Shutdown Undervoltage
Sample Exception Availability	N
Sleep Current (Max) (mA)	0.05

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