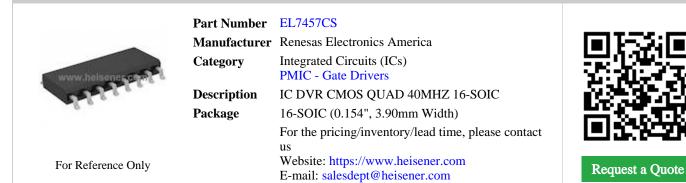


EL7457CS

EL7457CS Information



Certified Quality

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.



EL7457CS Specifications

Manufacturer Renesas Electronics America Category Integrated Circuits (ICs) PMIC - Gate Drivers PMIC - Gate Drivers Package 16-SOIC (0.154", 3.90mm Width) Series - Driven Configuration High-Side or Low-Side Channel Type Independent Number of Drivers 4 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2V Current - Peak Output (Source, Sink) 2A, 2A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 13.5ns, 13ns Operating Temperature -40°C ~ 85°C (TA) Mounting Type Surface Mount Package / Case 16-SOIC (0.154", 3.90mm Width)		
CategoryIntegrated Circuits (ICs)PMIC - Gate DriversPackage16-SOIC (0.154", 3.90mm Width)Series-Driven ConfigurationHigh-Side or Low-SideChannel TypeIndependentNumber of Drivers4Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)13.5ns, 13nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)	Manufacturer Part Number	EL7457CS
PackagePMIC - Gate DriversPackage16-SOIC (0.154", 3.90mm Width)Series-Driven ConfigurationHigh-Side or Low-SideChannel TypeIndependentNumber of Drivers4Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)13.5ns, 13nsOperating Temperature40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)	Manufacturer	Renesas Electronics America
Package16-SOIC (0.154", 3.90mm Width)Series-Driven ConfigurationHigh-Side or Low-SideChannel TypeIndependentNumber of Drivers4Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Kise / Fall Time (Typ)13.5ns, 13nsOperating Temperature4.0°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)	Category	Integrated Circuits (ICs)
Series-Driven ConfigurationHigh-Side or Low-SideChannel TypeIndependentNumber of Drivers4Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Size / Fall Time (Typ)13.5ns, 13nsOperating Temperature4.0°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)		PMIC - Gate Drivers
Driven ConfigurationHigh-Side or Low-SideDriven ConfigurationIndependentChannel Type4Number of Drivers4Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)13.5ns, 13nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Package	16-SOIC (0.154", 3.90mm Width)
Channel TypeIndependentNumber of Drivers4Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Coperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)	Series	-
Number of Drivers4Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)13.5ns, 13nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)	Driven Configuration	High-Side or Low-Side
Gate TypeN-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)13.5ns, 13nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)	Channel Type	Independent
Voltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)13.5ns, 13nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)	Number of Drivers	4
Logic Voltage - VIL, VIH0.8V, 2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)13.5ns, 13nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Gate Type	N-Channel, P-Channel MOSFET
Current - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)13.5ns, 13nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Voltage - Supply	4.5 V ~ 18 V
Input TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)13.5ns, 13nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Logic Voltage - VIL, VIH	0.8V, 2V
High Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)13.5ns, 13nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Current - Peak Output (Source, Sink)	2A, 2A
Rise / Fall Time (Typ)13.5ns, 13nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Input Type	Non-Inverting
Operating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	High Side Voltage - Max (Bootstrap)	-
Mounting TypeSurface MountPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Rise / Fall Time (Typ)	13.5ns, 13ns
Package / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package 16-SOIC	Mounting Type	Surface Mount
	Package / Case	16-SOIC (0.154", 3.90mm Width)
Report errors?	Supplier Device Package	16-SOIC
		Report errors?

EL7457CS Guarantees



Quality Guarantees

We provide 90 days warranty. * If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.

SERVICE BUARANTEE

Service Guarantees

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

EL7457CS Payment Methods WIRE PayPar PayPar Methods EL7457CS Shipping Methods EL7457CS Shipping Methods Met

If you have any question about EL7457CS, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com