

FOD8334

LED 4.0 AIGBT ()

FOD8334 4.0 A IGBT 1200V/150A IGBT IGBT/MOSFET FOD8334 IGBT Optoplanar® IC 16 (AlGaAs) (LED) RDS (ON) MOSFET (AlGaAs) LED

- Input LED Drive Facilitates Receiving Digitally Encoded Signals from PWM Output
 - Optically Isolated Fault-Sensing Feedback
 - Active Miller Clamp to Shut Off IGBT During High dv/dt without Negative Supply Voltage
 - High Noise Immunity Characterized by Common Mode Rejection – 35 kV/μs Minimum, VCM = 1500 VPEAK
 - 4.0 A Maximum Peak Output Current Driving Capability for Medium Power IGBT– P-Channel MOSFETs at Output Stage Enable Output Voltage Swing Close to Supply Rail (Rail-to-Rail Output)– Wide Supply Voltage Range: 15 V to 30 V
 - Integrated IGBT Protection
 - Desaturation Detection
 - “Soft” IGBT Turn-Off
 - Under-Voltage Lockout (UVLO) with Hysteresis
 - Fast Switching Speed Over Full Operating Temperature Range
 - 250 ns Maximum Propagation Delay
 - 100 ns Maximum Pulse Width Distortion
 - Extended Industrial Temperature Range:
 - –40°C to 100°C
 - Safety and Regulatory Approvals– UL1577, 4,243 VRMS for 1 Minute– DIN-EN/IEC60747-5-5 (Pending Approvals):1,414 VPEAK Working Insulation Voltage Rating 8,000 VPEAK Transient Isolation Voltage Rating8 mm Creepage and Clearance Distance
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- Automation
 - Consumer Appliances
 - Energy Generation & Distribution
 - Industrial Motor
 - Motion Control - Industrial Motor
 - Industrial HVAC
 - AC Servo Motor System
 - Solar

	Pricing (\$/Unit)	Compliance	Status	I _{FLH} (Max) (mA)	I _{DDL} , I _{DDH} (Max) (mA)	I _{OL} , I _{OH} (Min) (A)	t _{PHL} , t _{PLH} (Max) (ns)	PWD (Max) (ns)	V _{UVLO} (Typ) (V)	V _{UVLO} (Typ) (V)	CMR (Min) (kV/μs)	V _{ISO} (Min) (V)	T _{OPR} (Min) (°C)	T _{OPR} (Max) (°C)	Package Type
FOD8334	3.7247		Active	7	5	3	250	100	11.7	10.7	35	4243	-40	100	SOIC 16 W
FOD8334R2	3.7605		Active	7	5	3	250	100	11.7	10.7	35	4243	-40	100	SOIC 16 W