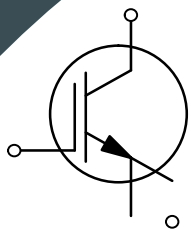
IGBT – Power, Single, N-Channel, Field Stop VII (FS7), SCR, Power TO247-4L

1200 V, 1.4 V, 25 A

AFGH4L25T120RW

BV_{CES}	$VCE_{(sat)}$ TYP	I_C MAX

PIN CONNECTIONS



TO 247 4LD
CASE 340CJ

Description

Using the novel field stop 7th generation IGBT technology in TO247 4ïlead package, this device offers the optimum performance with low on state voltage and minimal switching losses for both hard and soft switching topologies in automotive applications.

Features

- Extremely Efficient Trench with Field Stop Technology
- Maximum Junction Temperature ï T_J = 175 C
- Short Circuit Rated and Low Saturation Voltage
- Fast Switching and Tightened Parameter Distribution
- AECïQ101 Qualified, PPAP Available Upon Request
- These Device is Pbï Free, Halogen Free/BFR Free and is RoHS Compliant

Applications

- Automotive Eï compressor
- Automotive EV PTC Heater
- OBC

MARKING DIAGRAM

–
–
onsemi

MAXIMUM RATINGS

Parameter		Symbol	Value	Unit
– –				
– –				
– –				
	µ			
				µ
			–	

ORDERING INFORMATION

Device	Package	Shipping
	– – –	

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Unit
– –	θ		
– –	θ		

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
OFF CHARACTERISTICS						
– –				–	–	
			–	–		μ
– –			–	–		
ON CHARACTERISTICS						
– –						
– –						

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
SWITCHING CHARACTERISTICS						
–		Ω	–		–	
–			–		–	
			–		–	
			–		–	
–			–		–	
–			–		–	
			–		–	

AFGH4L25T120RW

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