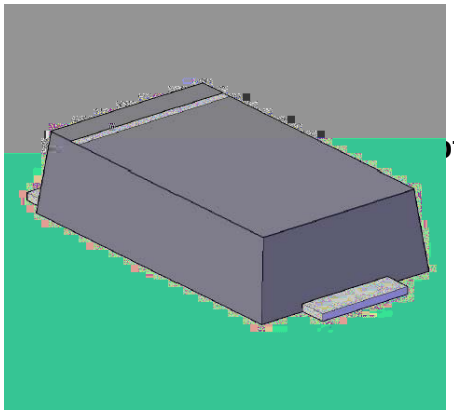
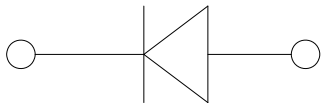
Surface Mount Fast Recovery Rectifier



r fast recovery
High forward surge capa b ility
Meets MSL level 1 , per J-STD- 0 2 0 , LF maximum peak of 2 6 0 ÁC



Typical Applications

For use in fast switching rectification of power supply, inverters, converters, and freewheeling diodes for consumer and telecommunication.

Mechanical Date

- **Package**: SOD-123HE
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■Maximum Ratings (T_a=25 Unless otherwise specified

PARAMETER			
verage rectified output current @ 6 0 H z sine wave , Resistance load , Ta (FIG.1)	Io	A	**2. 0**
Forward Surge Current (Non-repetitive) @ 6 0 H z Half-sine wave , 1 cycle , T j = 25	I_{FSM}	A	50
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			100
Current squared time @1ms≤t81	T_{stg}		-55 ~ +150

Junction temperature	T_j		-55 ~ +150

■Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	F2AE	F2BE	F2DE	F2GE	F2JE	F2KE	F2ME
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=2.0A	1.3						
Maximum reverse recovery time	t_{rr}	ns	I_F=0.5A,I_R=1.0A, I_{rr}=0.25A	150				250	500	
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j=25	5						
			T_j=125	100						

■Thermal Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	F2AE	F2BE	F2DE	F2GE	F2JE	F2KE	F2ME
Typical Thermal resistance	$R_{\theta J-A}$(1)	/W				90			

F2AE THRU F2ME

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