DSL34-MHT-F-Q1 THRU DSL310-MHT-F-Q1

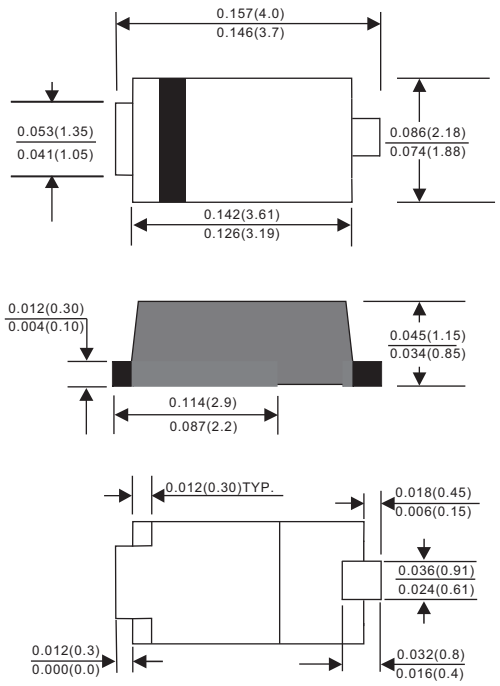
3.0A Low VF Surface Mount Schottky Barrier Rectifiers 40V-100V

Features

- Ideal for automated placement
- Low profile surface mounted application in order to optimize board space
- Tiny plastic SMD package
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- Guardring for overvoltage protection
- Compliant to Halogen-free
- Suffix "-Q1" for AEC-Q101

Package outline

SOD-123HT-F



Dimensions in inches and (millimeters)

Mechanical data

- Package: SOD-123HT-F, Molding compound meets UL 94 V-0 flammabilityrating, RoHS-compliant, halogen-free
- Terminals :Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity : Cathode line denotes the cathode end
- Mounting Position : Any

Maximum ratings (AT T_A=25°C unless otherwise noted)

PARAMETER	SYMBOLS	DSL34-MHT-F-Q1	DSL36-MHT-F-Q1	DSL310-MHT-F-Q1	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	40	60	100	V
Maximum average forward rectified current @60Hz half -sine wave,1 cycle,T_j=25°C	I_O	3.0			A
Non-repetitive peak forward surge current @60Hz half -sine wave,1 cycle,T_j=25°C	I_{FSM}	60			A
Operating junction temperature range	T_J	-55 to +150			°C
Storage temperature range	T_{STG}	-55 to +150			°C

Electrical characteristics (AT T_A=25°C unless otherwise noted)

PARAMETER	SYMBOLS	DSL34-MHT-F-Q1	DSL36-MHT-F-Q1	DSL310-MHT-F-Q1	UNITS
Maximum instantaneous forward voltage at I_F=3.0A	V_F	0.45	0.50	0.60	V
Maximum reverse leakage current T_A=25°C at VRM=VRRM T_A=100°C	I_R	0.5 10		0.1 5	mA mA

Thermal characteristics (AT T_A=25°C unless otherwise noted)

PARAMETER	SYMBOLS	DSL34-MHT-F-Q1	DSL36-MHT-F-Q1	DSL310-MHT-F-Q1	UNITS
Thermal resistance junction to ambient	$R_{\theta JA}$	80			°C/W

Notes1: Pulse test:300uS pulse widh,1% duty cycle
2: Pulse test:pulse widh 40mS

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Rating and characteristic curves

FIG1: Io-TL Curve

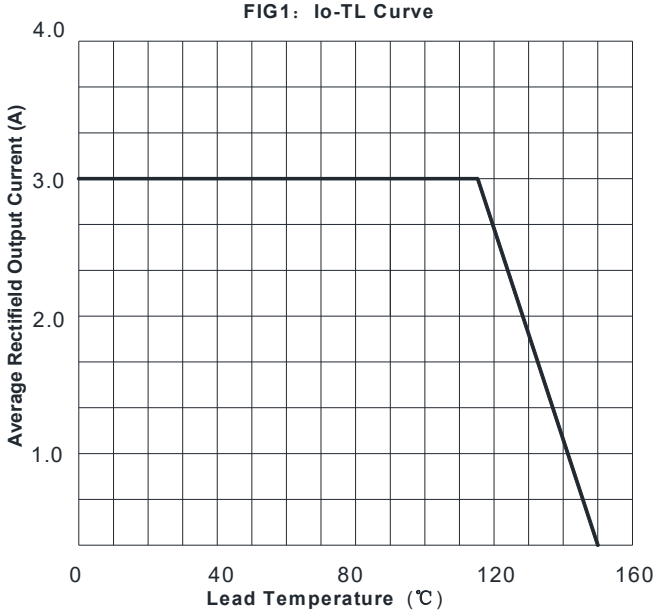


FIG2: Surge Forward Current Capability

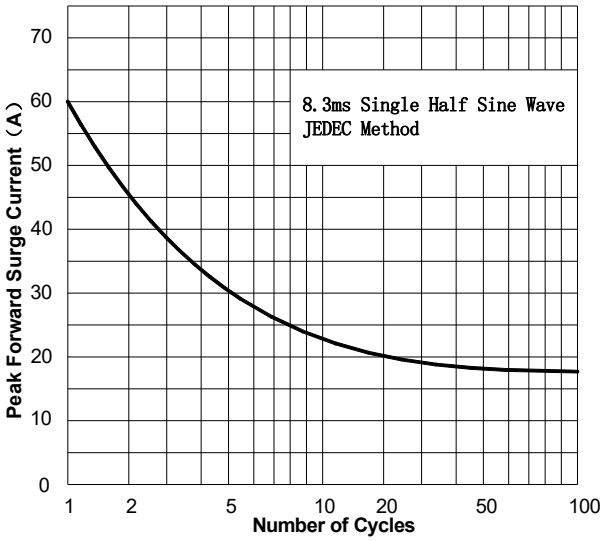


FIG3: Forward Voltage

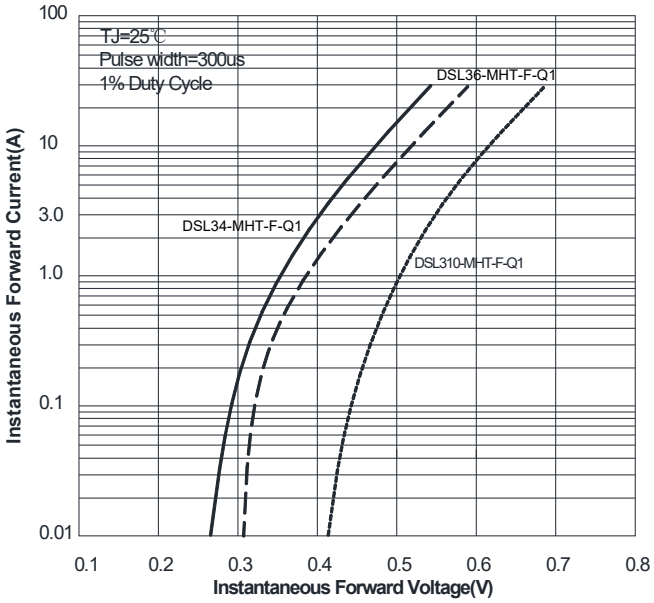
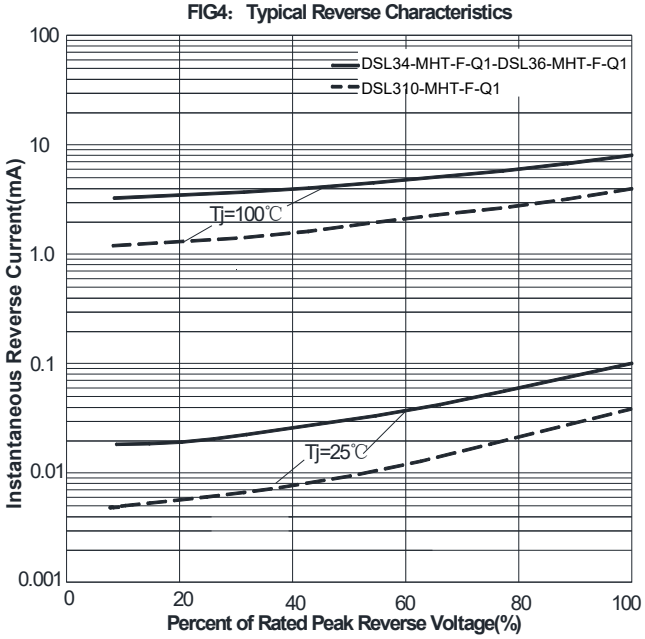


FIG4: Typical Reverse Characteristics



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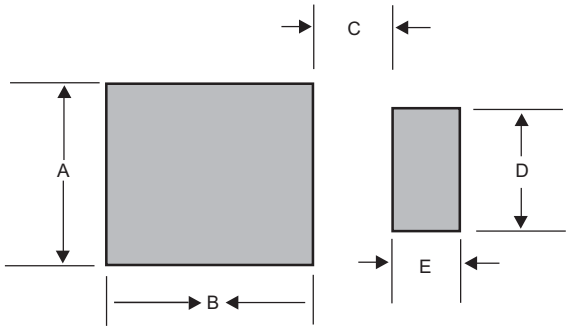
Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Marking

Type number	Marking code
DSL34-MHT-F-Q1	34L
DSL36-MHT-F-Q1	36L
DSL310-MHT-F-Q1	310L

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	A	B	C	D	E
SOD-123HT-F	0.100(2.54)	0.105(2.67)	0.025(0.64)	0.048(1.23)	0.030(0.76)