

## Dual Common-Cathode Ultra Low VF Schottky Rectifier

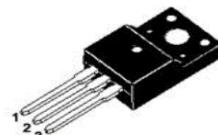
### FEATURES AND BENEFITS

- Low power loss, high efficiency operation
- Low forward voltage drop
- Fast switching capability
- High forward surge capability
- Excellent High Temperature Stability

### MECHANICAL DATA

- Epoxy : UL94 V-0 rated flame retardant
- Case: ITO-220AB Package
- Terminals: Matte Tin annealed over copper
- Weight: Approximated 2.03 grams

Primary Characteristic	
I <sub>O</sub>	2X5A
V <sub>RRM</sub>	60V
I <sub>FSM</sub>	100A
V <sub>F</sub> Max=5A, T <sub>J</sub> =25°C	0.60V
T <sub>Jmax</sub>	150°C



### Maximum Ratings (Ta=25°C unless otherwise specified)

Characteristics	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	60	V
Working Peak Reverse Voltage	V <sub>RWM</sub>	60	V
DC Blocking Voltage	V <sub>DC</sub>	60	V
RMS Reverse Voltage	V <sub>RMS</sub>	42	V
Average Forward Rectified Current (per diode)	I <sub>O</sub>	5	Amps
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	100	Amps

### Electrical Characteristics (Ta=25°C unless otherwise specified )

Characteristics	Symbol	Typ.	Max.	Unit
Forward Voltage Drop	V <sub>F</sub>	-	0.52	V
	V <sub>F</sub>	-	0.60	V
	V <sub>F</sub>	-	0.45	V
	V <sub>F</sub>	-	0.56	V
Reverse Current	I <sub>R</sub>	-	100	µA
	I <sub>R</sub>	-	20	mA

### THERMAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

Characteristics	Symbol	Value	Unit
Typical Thermal Resistance, junction to case	R <sub>θJC</sub>	4.0	°C/W
Operating Temperature Range ( in DC Mode)	T <sub>J</sub>	-65 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-65 to +150	°C

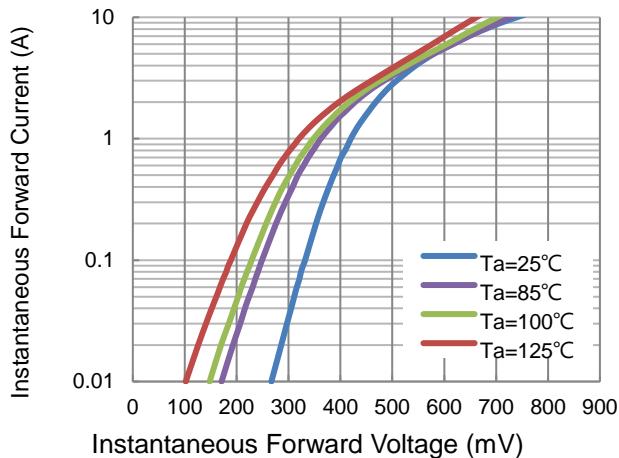
Notes (1): Pulse test: 300µs pulse width, 1% duty cycle.

Notes (2): Pulse width ≤40ms

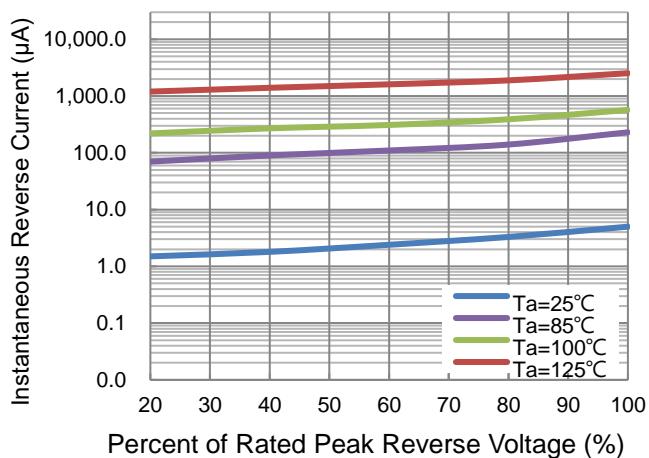
Notes (3): FR-4 PCB, 2oz copper. Minimum recommended pad layout

**RATINGS AND CHARACTERISTICS CURVES**

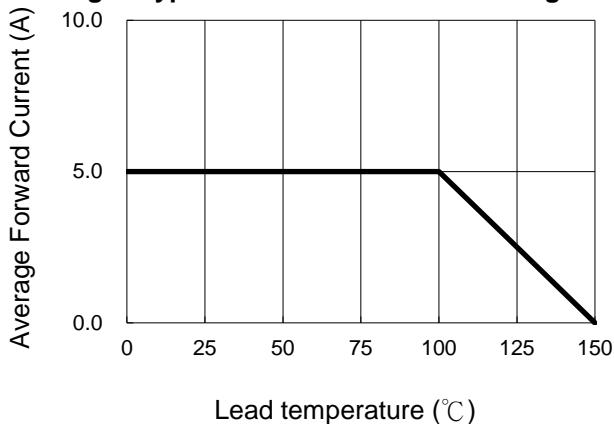
**Fig 1. Typical Forward Characteristics**



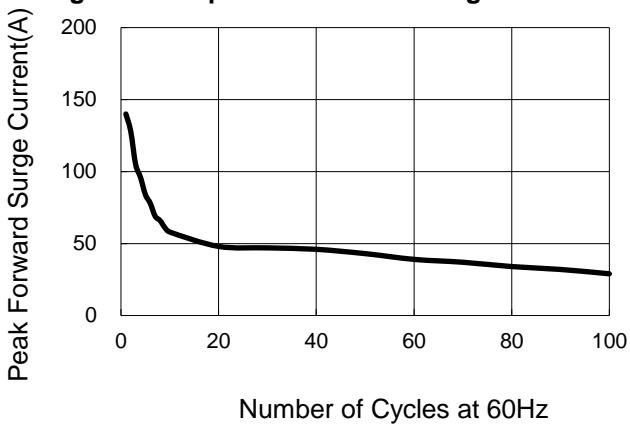
**Fig 2. Typical Reverse Characteristics**



**Fig 3. Typical Forward Current Derating Curve**

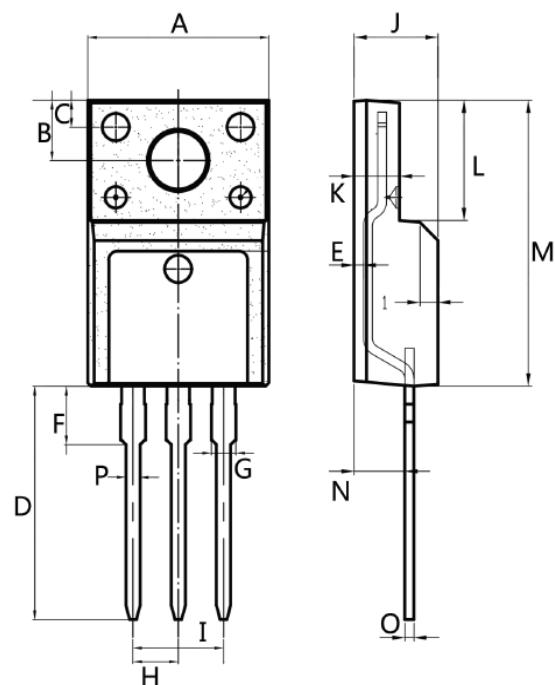


**Fig 4. Non-repetitive Forward Surge Current**

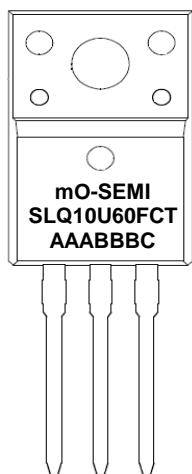


### Package Outline Dimensions (in millimeters)

ITO-220				
SYMBOL	Dimensions			
	Millimeters		Inches	
	Min	Max	Min	Max
A	9.95	10.30	0.39	0.41
B	2.95	3.40	0.12	0.13
C	1.25	1.45	0.05	0.06
D	12.80	13.30	0.50	0.52
E	0.40	0.60	0.02	0.02
F	2.80	3.50	0.11	0.14
G	1.20	1.47	0.05	0.06
H	2.40	2.70	0.09	0.11
I	4.80	5.40	0.19	0.21
J	4.60	4.80	0.18	0.19
K	2.44	2.65	0.10	0.10
L	6.50	6.90	0.26	0.27
M	15.40	16.00	0.61	0.63
N	2.65	3.05	0.10	0.12
O	0.45	0.63	0.02	0.02
P	0.70	0.91	0.03	0.04



### Marking Information



mO-SEMI =Series Name  
 SLQ10U60 =Part Number Marking Code  
 AAABBB =Product Tracking Code  
 \*FCT=ITO-220 =Dual ITO-220