

US1A thru US1M

SURFACE MOUNT ULTRA FAST RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 1.0 Ampere

FEATURES

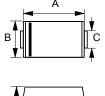
- Glass passivated chip
- Ultra fast switching for high efficiency
- For surface mounted applications
- Low forward voltage drop and high current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

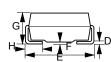
MECHANICAL DATA

• Case : Molded plastic

Polarity: Indicated by cathode bandWeight: 0.002 ounces, 0.064 grams

SMA





SMA								
DIM.	MIN.	MAX.						
Α	4.06	4.57						
В	2.29	2.92						
С	1.27	1.63						
D	0.15	0.31						
E	4.83	5.59						
F	0.05	0.20						
G	2.01	2.40						
Н	0.76	1.52						
All Dimensions in millimeter								

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	US1A	US1B	US1D	US1G	US1J	US1K	US1M	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TL =75 °C	(AV)				1.0			1	А
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD	IFSM				30				А
Maximum forward Voltage at 1.0A DC	VF		1.0		1.3		1.7		٧
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ =25°C	l IR	5.0 100						uA	
Maximum Reverse Recovery Time (Note 1)	TRR		50)			75		ns
Typical Junction Capacitance (Note 2)	Cı		20	0			10		pF
Typical Thermal Resistance (Note 3)	Reja Rejl Rejc				60 22 18				°C/W
Operating Temperature Range	TJ			-	55 to +150)			°C
Storage Temperature Range	Тѕтс			-	55 to +15)			,C

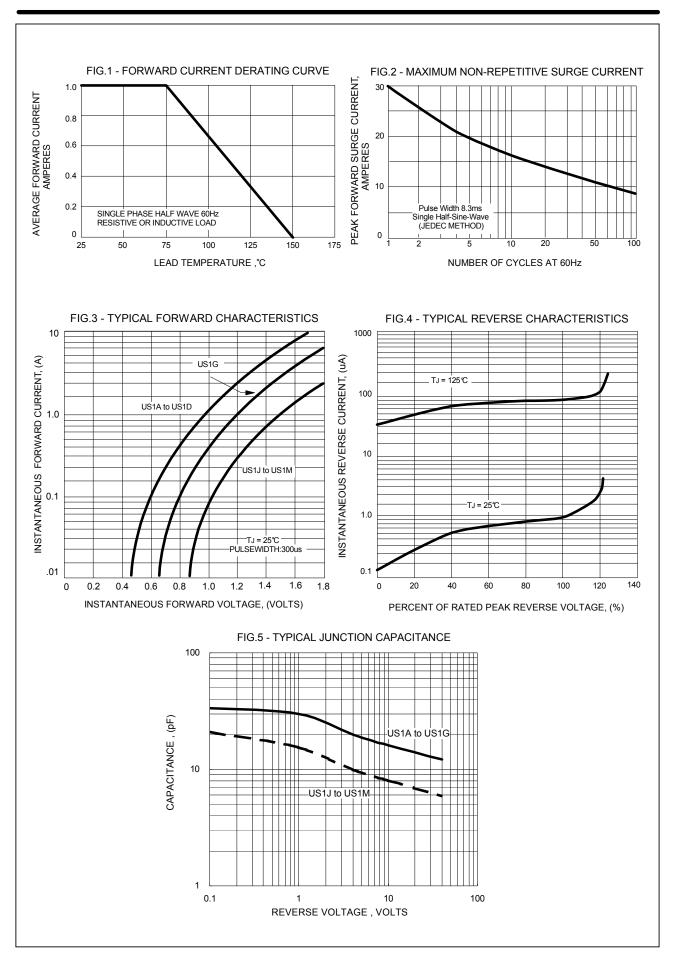
NOTES: 1.Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal Resistance junction to Ambient, Lead and Case.

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