

US5AC - US5MC

SURFACE MOUNT ULTRA FAST RECTIFIER DIODES

VOLTAGE RANGE: 50 - 1000V CURRENT: 5.0 A

Features

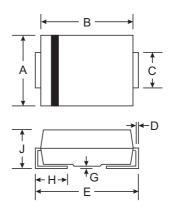
- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Low Power Loss
- Ultra-Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)







SMC/DO-214AB							
Dim	Min	Max					
Α	5.59	6.22					
В	6.60	7.11					
С	2.75	3.18					
D	0.15	0.31					
E	7.75	8.13					
G	0.10	0.20					
Н	0.76	1.52					
J	2.00	2.62					
All Dimensions in mm							

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

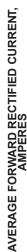
Characteristic	Symbol	US5AC	US5BC	US5DC	US5GC	US5JC	US5KC	US5MC	Unit
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 0.375" (9.5mm) lead length at Ta=55°C	l _(AV)	5.0						А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) TL=25°C	IFSM	150.0						А	
Maximum instantaneous forward voltage at 5.0A	VF	1.0 1.40 1.70					V		
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lr	10.0 300.0					μA		
Maximum reverse recovery time (NOTE 1)	trr	50 75			ns				
Typical junction capacitance (NOTE 2)	Сл		15				12		pF
Typical thermal resistance	Rejl	15.0					°C/W		
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +150					°C		

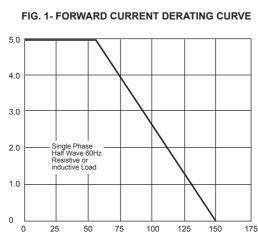
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

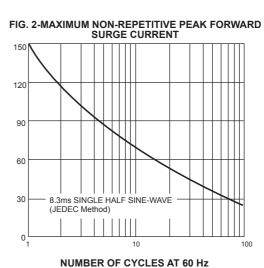


RATINGS AND CHARACTERISTIC CURVES US5ACTHRU US5MC



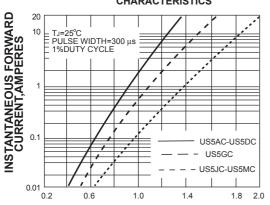


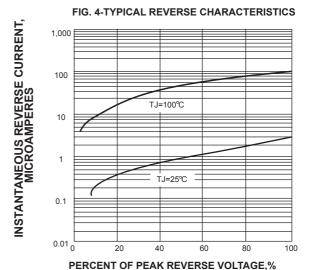




AMBIENT TEMPERATURE, °C

FIG. 3-TYPICAL INSTANTANEOUS FORWARD **CHARACTERISTICS**





INSTANTANEOUS FORWARD VOLTAGE, **VOLTS**

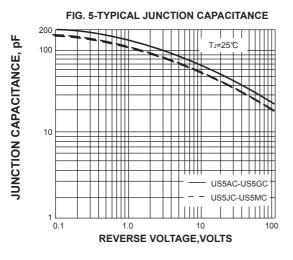
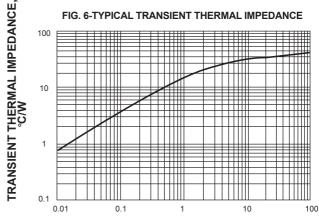


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



t,PULSE DURATION,sec.

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