

US1D SERIES

SURFACE MOUNT ULTRAFAST RECTIFIER		
VOLTAGE 200 to 1000 Volt CURRENT 1 Ampere	SMA/DO-214AC	Unit : inch(mm)
FEATURES		
 For surface mounted applications in order to optimize board space Easy pick and place Ultrafast recovery times for high efficiency Plastic package has Underwriters Laboratory Flammability Classification 94V-O Glass passivated junction Lead free in compliance with EU RoHS 2.0 Green molding compound as per IEC 61249 standard 	091)2590 000 000 000 000 000 000 000 000 000	0.114(2.90)
MECHANICAL DATA		0. 012(0. 305)
 Case: JEDEC DO-214AC molded plætic Terminals: Solder plated, solderable per MIL-STD-750,Method 2026 Polarity: Color band denotes cathode end Standard packaging: 12mm tape (EIA-481) Weight: 0.0023 ounces, 0.0679 grams Marking : Part number 	0.060(1.52) 0.030(0.76) 0.208(5.28) 0.188(4.80)	0.006(0.152)
Cathode Anode		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

					1		
PARAMETER	SYMBOL	US1D	US1G	US1J	US1K	US1M	UNITS
Maximum Recurrent Peak Reverse Voltage	V	200	400	600	800	1000	V
Maximum RMS Voltage	V	140	280	420	560	700	V
Maximum DC Blocking Voltage	V	200	400	600	800	1000	V
Maximum Average Forward Current	l F(AV)	1					A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	l FSM	30					A
Maximum Forward Voltage at 1A	V _F	1	1.3	1.7			V
Maximum DC Reverse Current at Rated DC Blocking Voltage $$T_{\rm J}$=25^{\circ}C$ $T_{\rm J}$=125^{\circ}C$ $T_{\rm J}$ $T_{\rm J}$=125^{\circ}C$ $T_{\rm J}$ $T_{\rm J}$=125^{\circ}C$ $T_{\rm J}$ $T_{\rm J}$=125^{\circ}C$ $T_{\rm J}$ $T_{\rm J}$ $T_{\rm J}$=125^{\circ}C$ $T_{\rm J}$ $T_{\rm J}$$	I _R	1 100				μA	
Typical Junction Capacitance (Note 2)	C」			17			pF
Typical Thermal Resistance (Note 3)	R _{ejl}	30				°C / W	
Typical Thermal Resistance (Note 4)	R _{ejc}	28			°C / W		
Maximum Reverse Recovery Time (Note 1)	T	50 100			ns		
Operating Junction and Storage Temperature Range	T , T _{stg}	-55 to +150			٥C		

NOTES:1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=-1A, I_{rr}=-0.25A

2. Measured at 1 MHz and applied V_r = 4volts.

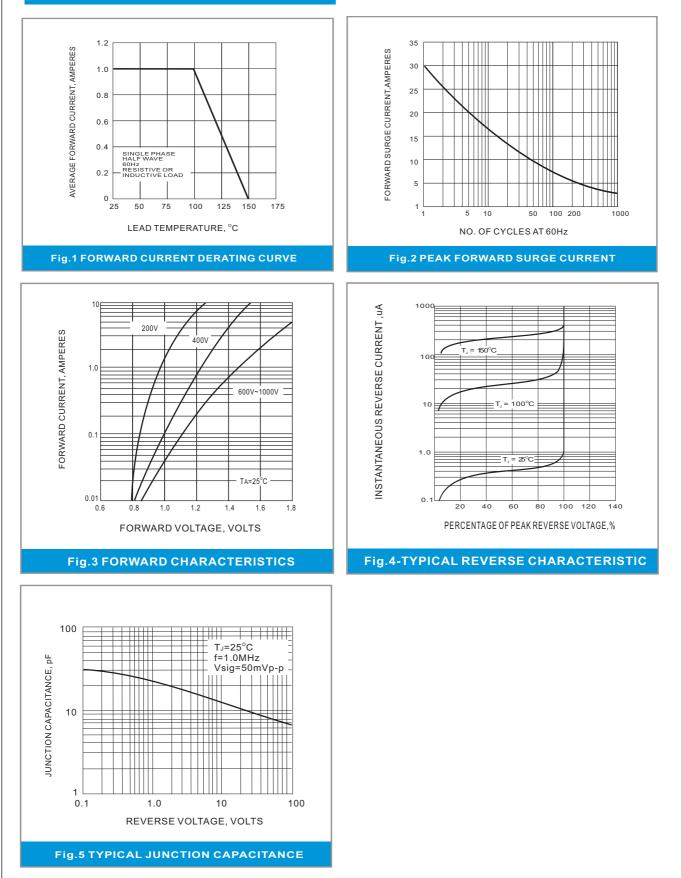
3. 8mm² (0.013mm thick) land areas.

4. Mounted on 100cm² FR4 PCB.

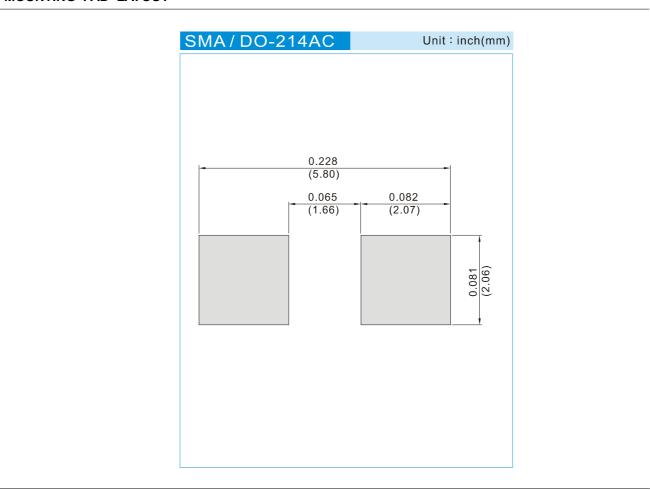


US1D SERIES

RATING AND CHARACTERISTIC CURVES







ORDER INFORMATION

- Packing information
 - T/R 7.5K per 13" plastic Reel
 - T/R 1.8K per 7" plastic Reel



Part No._packing code_Version

US1D_R1_00101 US1D_R2_00101 US1G_R1_00101 US1G_R2_00101 US1J_R1_00101 US1J_R2_00101 US1K_R1_00101 US1M_R1_00101 US1M_R2_00101

For example :

RB500V-40_R2_00001

Part No.

Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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