



ULTRAFAST RECOVERY RECTIFIERS

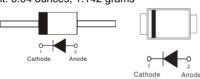
Voltage 400 V Current 5 A

Features

- Silicon epitaxial high-speed diodes
- Soft recovery characteristics
- Low forward voltage, high current capability
- Hermetically sealed.
- Low leakage
- High surge capacity
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)(SMC)

Mechanical Data

- Case: Molded plastic, SMC, DO-201AD
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- SMC Approx. Weight: 0.0082 ounces, 0.2325 grams
- DO-201AD Approx. Weight: 0.04 ounces, 1.142 grams
- Marking: Part number





Maximum Ratings (T_A=25°C unless otherwise noted)

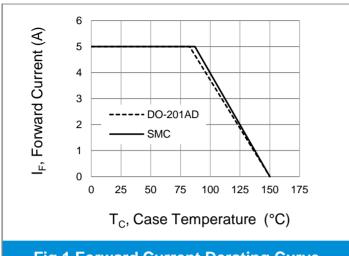
PARAMETE	SYMBOL	LIMIT	UNIT	
Maximum repetitive peak reverse voltage		VRRM	400	V
Maximum rms voltage	VRMS	280	V	
Maximum dc blocking voltage	VR	400	V	
Maximum average forward current		I F(AV)	5	А
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		IFSM	80	А
Maximum forward voltage at 5A		VF	1.25	V
Maximum dc reverse current at rated dc blocking voltage		lR	1	μА
Maximum reverse recovery time	(Note 4)	Trr	50	ns
Typical thermal resistance	SMC(Note 3)	$R_{\theta JA}$	125	
	SMC(Note 1)	$R_{ heta JC}$	14	°C/W
	DO-201AD(Note 2)	$R_{\theta JL}$	24	
Operating and storage temperature range		TJ, Tsтg	-55 to +150	°C

Note: 1. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area

- 2. The testing condition of the thermal resistance (junction to lead) is based on 10 mm lead length between two 10cm x 10cm x 0.5mm copper pad
- 3. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 4. Reverse Recovery Test Conditions: IF=0.5A, IR=1A, Recover to 0.25A







Cy Junction Capacitance (principle)

10

V_R, Reverse Bias Voltage (V)



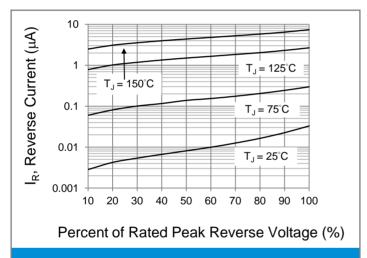


Fig.2 Typical Junction Capacitance

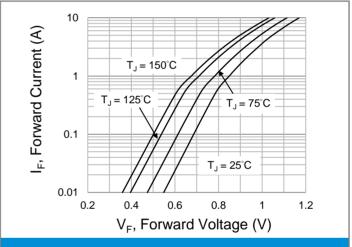
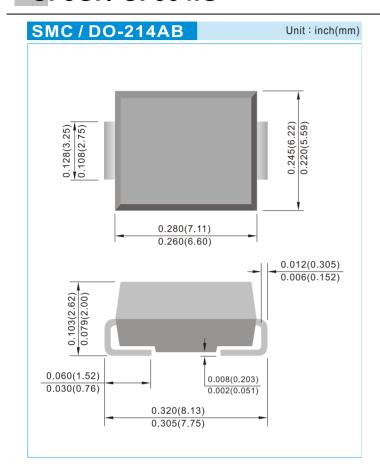


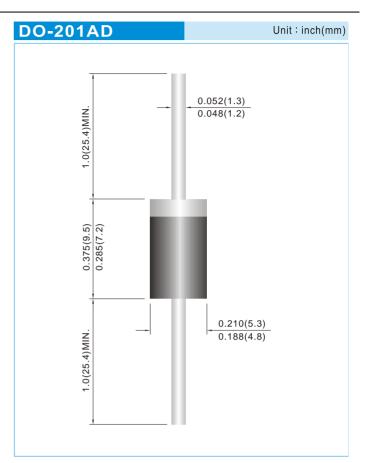
Fig.3 Typical Reverse Characteristics

Fig.4 Typical Forward Characteristics





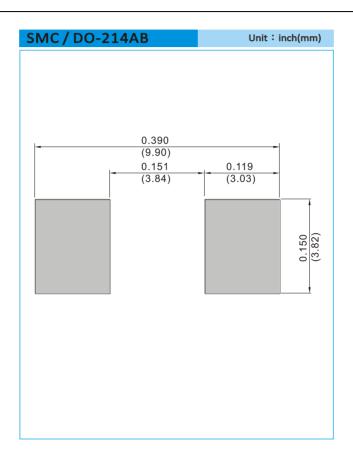








MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information
 T/R – 3K per 13" plastic Reel
 T/R – 0.5K per 7" plastic Reel





Part No_packing code_Version

UF504IG_AY_00001

UF504IG_AY_10001

UF504IG_B0_00001

UF504IG_B0_10001

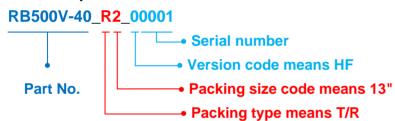
UF504IG_R2_00001

UF504IG_R2_10001

UF5GI_R1_00001

UF5GI_R2_00001

For example:



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	Υ				
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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