

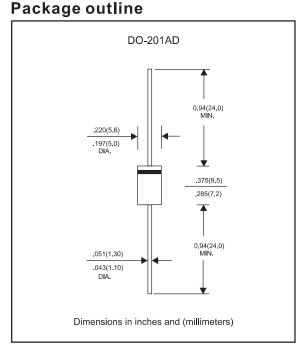
5.0A Axial Leaded Super Fast Rectifiers-50-600V

Features

- Low reverse leakage current
- Low forward drop down voltage & high current capability
- High surge current capability
- Super fast switching speed for high efficiency
- · Glass passivated chip junction
- High Reliability
- Lead-free parts for green partner, meet RoHS requirements
- Suffix "-H" indicates Halgon free parts, ex. SF51GH.

Mechanical data

- Epoxy : UL94-V0 rated flame retardant
- · Case : Molded plastic, DO-201AD
- Lead : Axial leads, solderable per MIL-STD-202, Method 208 guranteed
- Polarity: Color band denotes cathode end
- Mounting Position : Any



Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

	SYMBOLS	SF51G	SF52G	SF53G	SF54G	SF55G	SF56G	SF57G	SF58G	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	150	200	300	400	500	600	V
Maximum RMS voltage	Vrms	35	70	105	140	210	280	350	420	V
Maximum DC blocking voltage	Vdc	50	100	150	200	300	400	500	600	V
Maximum average forward rectified current	(AV) 5.0			А						
0.375" (9.5mm) lead length at Ta=55°C										
Peak forward surge current 8.3ms single half sine-wave superimposed on IFSM rated load (JEDEC Method)				150				А		
Maximum instantaneous forward voltage at 5.0A			1.25		1.7		V			
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	IR	10.0 100.0				μA				
Maximum reverse recovery time (NOTE 1)	trr	35			ns					
Typical junction capacitance (NOTE 2)	CJ	80.0				pF				
Typical thermal resistance (NOTE 3)		30.0					°Č/W			
Operating junction and storage temperature range	Тј,Тѕтс	-55 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. 3.Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length,P.C.B. mounted

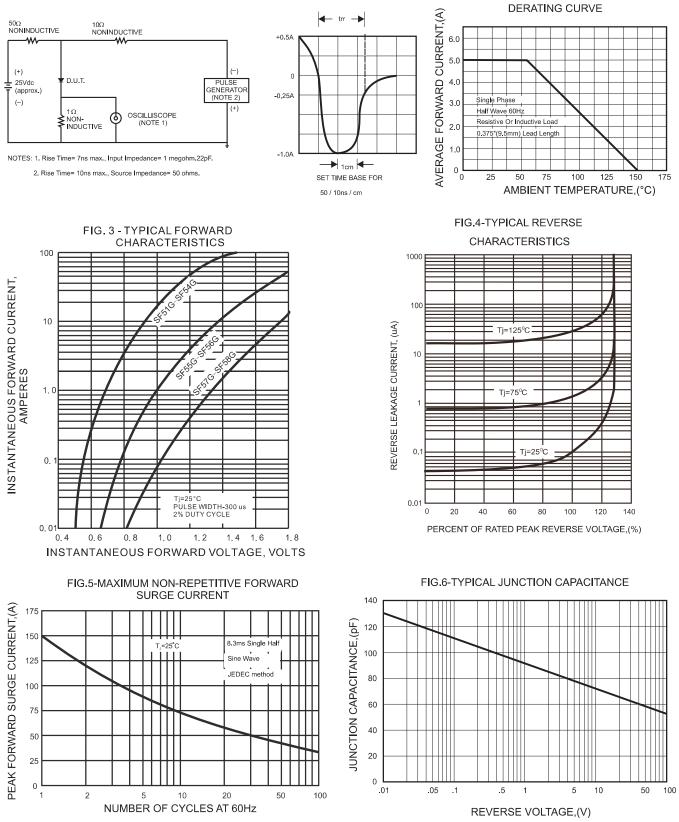


FIG.2-TYPICAL FORWARD CURRENT

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Rating and characteristic curves

FIG.1- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC





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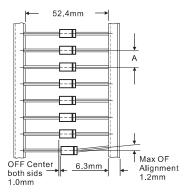
Pinning information

Pin	Simplified outline	Symbol		
Pin1 cathode Pin2 anode	1 2	1 2		

Marking

Type number	Marking code	Example			
SF51G SF52G SF53G SF54G SF55G SF56G SF56G SF57G SF58G	SF51G SF52G SF53G SF54G SF55G SF56G SF56G SF57G SF58G	For Halogen Device LOGO SF58G Marking code	For Halogen-free Device		

Taping specifications for AXIAL devices



AMMO PACKING

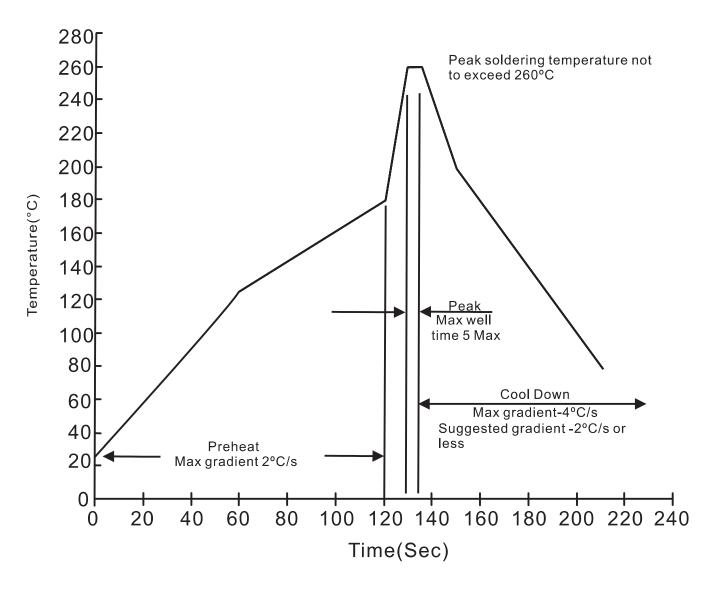
DEVICE	Q'TY 1	INNER	CARTON	Q'TY 2	APPROX.
CASE	(PCS/BOX)	BOX SIZE	SIZE	(PCS/CARTON)	CROSS
TYPE		(m/m)	(m/m)		WEIGHT(kg)
DO-201AD	1,250	258 * 75 * 143	405 * 270 * 320	12,500	14.0



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Suggested thermal profiles for soldering processes

1.Lead free temperature profile wave-soldering



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