

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Surge Current Capability And High Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 1) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

**5 Amp
Low VF GW ch_m
FYWZYF
45 Volts**

Maximum Ratings @ 25°C (Unless Otherwise Specified)

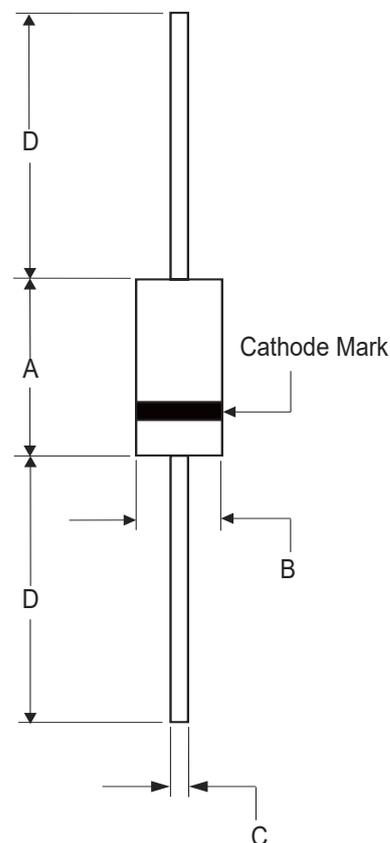
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	45	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V_{RMS}	31.5	V
Average Rectified Forward Current	$I_{F(AV)}$	5	A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I_{FSM}	120	A
Current Squared Time @ $1ms \leq t \leq 8.3ms$	I^2t	60	A ² s

Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode		
2	Anode		

Note: 1. High temperature solder exemption applied, see EU directive annex 7a.

DO-201AD



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.287	0.374	7.30	9.50	
B	0.189	0.208	4.80	5.30	
C	0.048	0.052	1.20	1.30	
D	1.000	-----	25.40	-----	

Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_J	Operating Junction Temperature Range		-55		150	°C
T_{stg}	Storage Temperature Range		-55		150	°C
$R_{th(J-L)}$	Thermal Resistance from Junction to Lead	Note 1		8		°C/W
$R_{th(J-C)}$	Thermal Resistance from Junction to Case	Note 1		10		°C/W
$R_{th(J-A)}$	Thermal Resistance from Junction to Ambient	Note 1		25		°C/W

Note: 1. Thermal resistance from junction to lead PCB mounting 0.375" (9.5 mm) lead length.

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=5A; T_J=25^\circ C$		0.43	0.49	V
Reverse Current	I_R	at Rated $V_R; T_J=25^\circ C$ at Rated $V_R; T_J=125^\circ C$			0.2 20	mA
Junction Capacitance	C_J	$V_R=4V; f=1MHz; T_J=25^\circ C$		320		pF

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

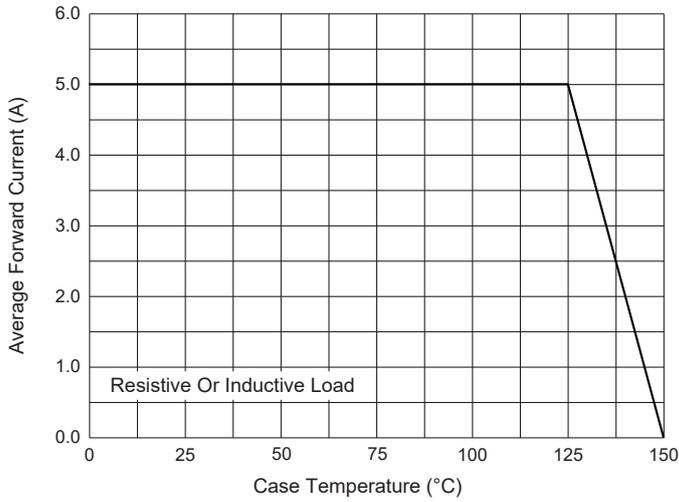


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

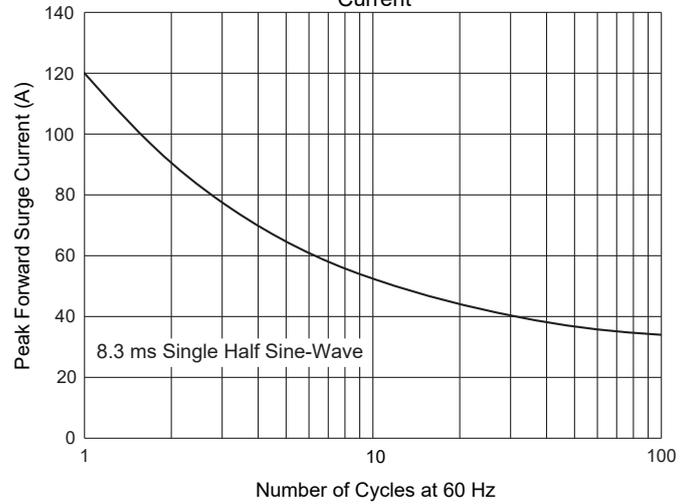


Fig. 3 - Typical Forward Characteristics

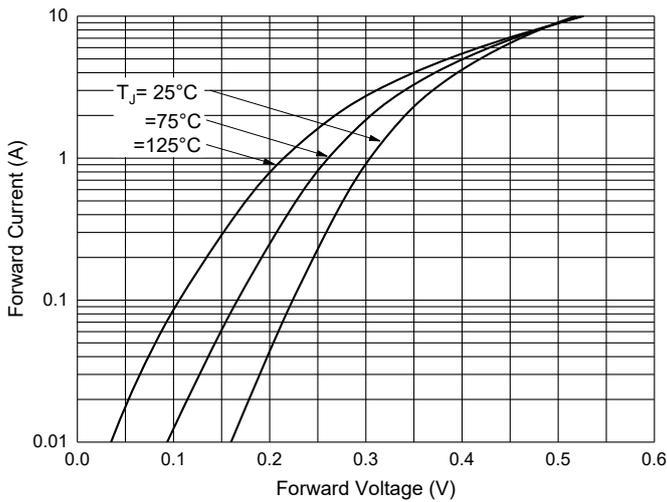


Fig. 4 - Typical Forward Characteristics

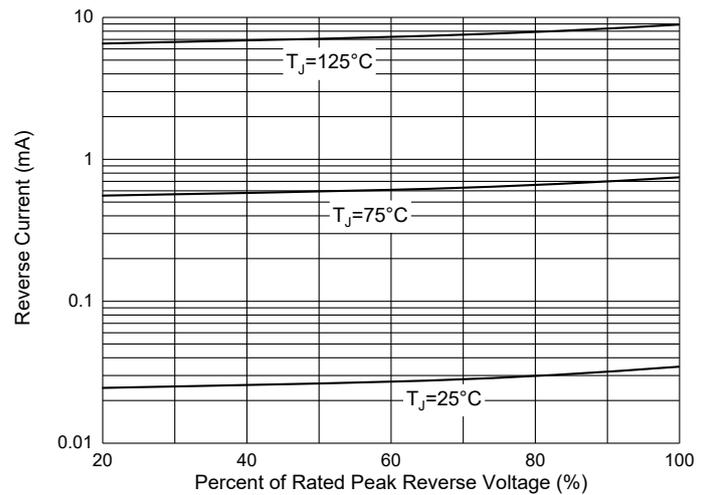
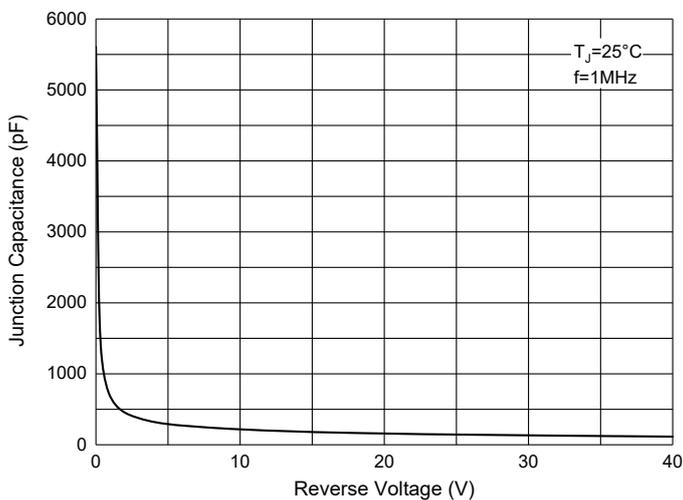


Fig. 5 - Typical Capacitance Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:1.2Kpcs/Reel
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box
Part Number-BP	Bulk:500pcs/Box,12Kpcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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