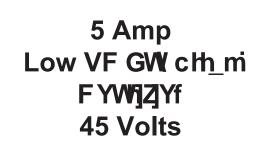


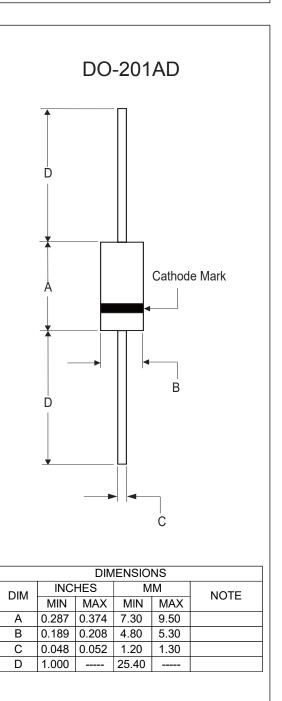
Features

- 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)



Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	45	V
DC Blocking Voltage	V_{R}		
RMS Reverse Voltage	V_{RMS}	31.5	V
Average Rectified Forward Current	I _{F(AV)}	5	А
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	120	A
Current Squared Time @1ms≤t≤8.3ms	l ² t	60	A²s



Internal Structure

Pin	Description	Simplified Outline	Graphic Symbol
1	Cathode		
2	Anode	MCC J SR545L	1 oo 2
		2	

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



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		8		°C/W
Rth _(J-C)	Thermal Resistance from Junction to Case	Note 1		10		°C/W
Rth _(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	Тур	Max	Unit
Forward Voltage	V _F	I _F =5A;T _J =25°C		0.43	0.49	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			0.2 20	mA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		320		pF



Curve Characteristics

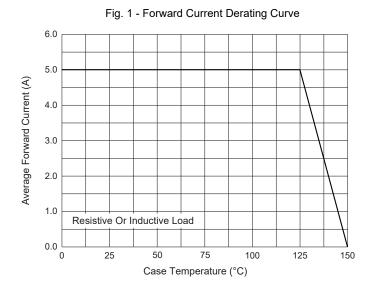
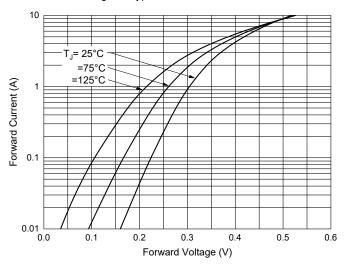
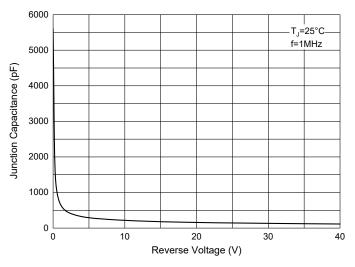


Fig. 3 - Typical Forward Characteristics







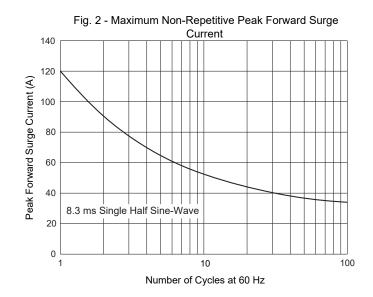
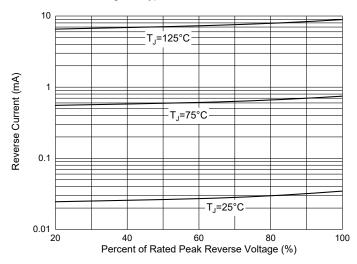


Fig. 4 - Typical Forward Characteristics





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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