## **MS D154**





### **Key Parameters**

 $\begin{array}{lll} V_{RRM} & = 1600 V \\ I_{F(AV)} & = 150 A \\ I_{FSM} & = 4000 A \\ V_{F(TO)} & = 0.82 V \\ r_{\,\text{\tiny E}} & = 0.90 \text{m} \Omega \end{array}$  $= 0.90 \text{m}\Omega$ 

#### **Features**

- Full blocking capability over wide temperature range
- Threaded Stud

## ApplicationsPower Supplies

- Uncontrolled Rectifiers
- Battery Chargers

### **Ordering Information**

MS D	154	N	хх	U	В
Rectifier Diode	Current code	Polarity R= Base Anode N= Base Cathode	Voltage Code Code X 100 = V <sub>RRM</sub>	Stud Threads U = 3/8"-24 UNF 2A U1 = 1/2"-20UNF 2A	Technology B = Solder Bond Technology
Order Code, MS D154N16LIB : 1600V, Vasa, LINE Stud, Diode with base Cathode					

V<sub>RRM</sub>, UNF Stud, Diode with base Cathode

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# Technical Information Power Rectifier Diodes

## **MS D154**



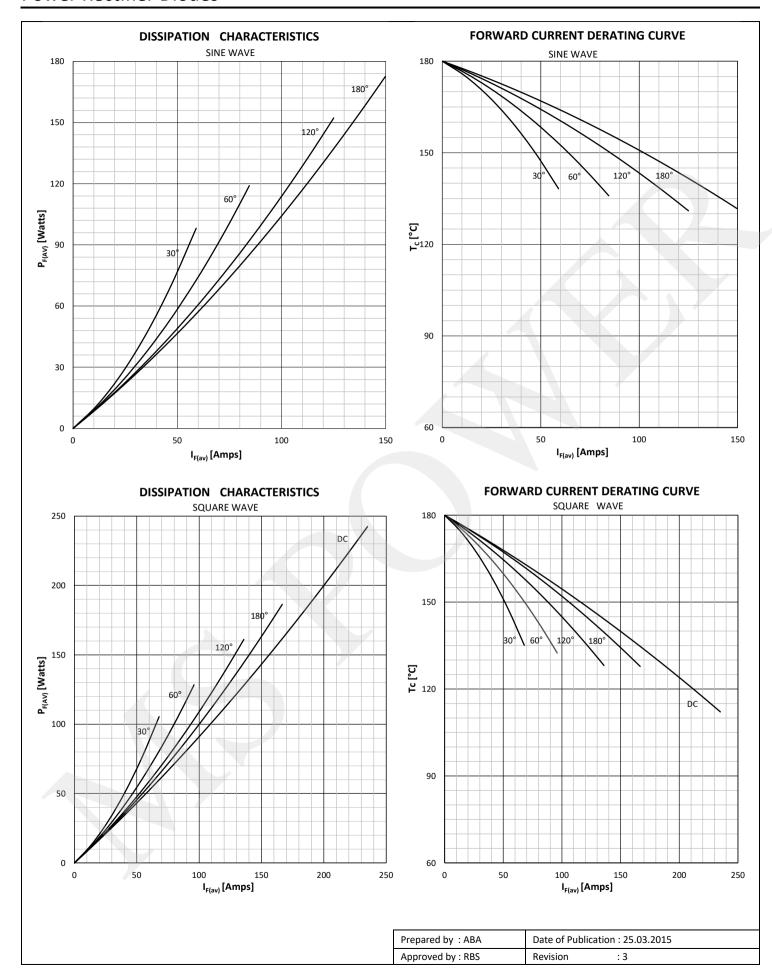
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		180	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		180	300 - 1700	V
I RRM	Repetitive peak reverse current	V= V RRM	180	20	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin ,50 Hz, T <sub>c</sub> =130°C		150	А
I FRMS	RMS current	T <sub>c</sub> =130°C		235	А
Leon	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	4000	Α
I FSM			180	3600	Α
		Sine wave, 10 ms Without reverse voltage	25	80000	A <sup>2</sup> s
l² t	l² t		180	64800	A <sup>2</sup> s
VF	Forward voltage	On-state current = 470A	180	1.25	V
V F(TO)	Threshold voltage		180	0.82	V
r <sub>F</sub>	Forward slope resistance		180	0.90	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.28	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.05	°C/W
Тj	Max. junction temperature			180	°C
T stg	Storage temperature			-40 180	°C
М	Mounting torque			13 - 14	NM
W	Weight (Approx.)			88	gm

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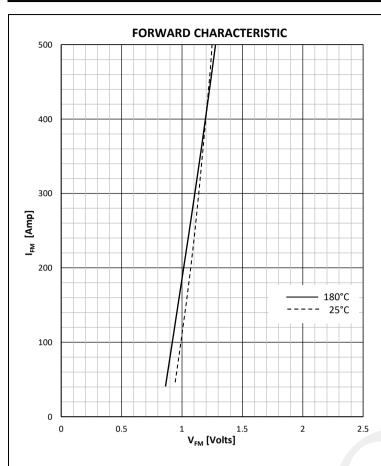


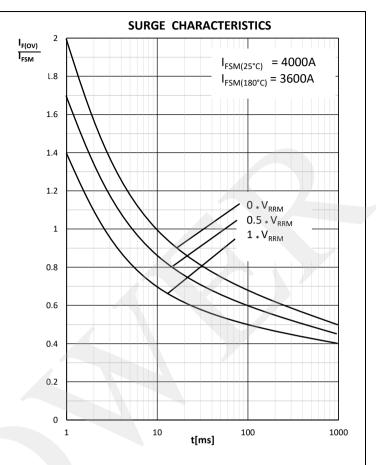


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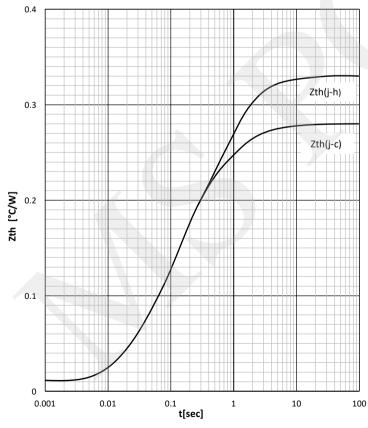
## **MS D154**







#### TRANSIENT THERMAL IMPEDANCE

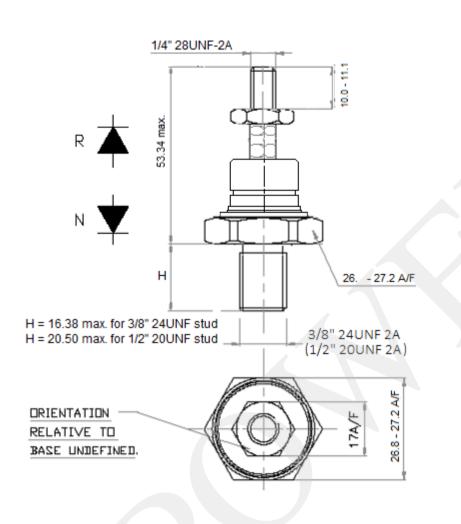


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## **MS D154**



### **Outline**



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