### **MS D3454**





### **Key Parameters**

 $V_{\mathsf{RRM}}$ = 2600 V= 3454AI<sub>F(AV)</sub> = 37000AIFSM  $V_{F(TO)}$ = 0.80V $= 0.110 \text{m}\Omega$ ГF

#### **Features**

- Full blocking capability over wide temperature range
- Hermetically sealed ceramic package
- High case non-rupture current

## ApplicationsTraction Rectifiers

- **Uncontrolled Rectifiers**
- Welding
- Induction Heating / Melting

### **Ordering Information**

MS D	3454	С	XX
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V <sub>RRM</sub>
Order Code MS D3454C26 : 2600V V <sub>RRM</sub> , Capsule Diode			

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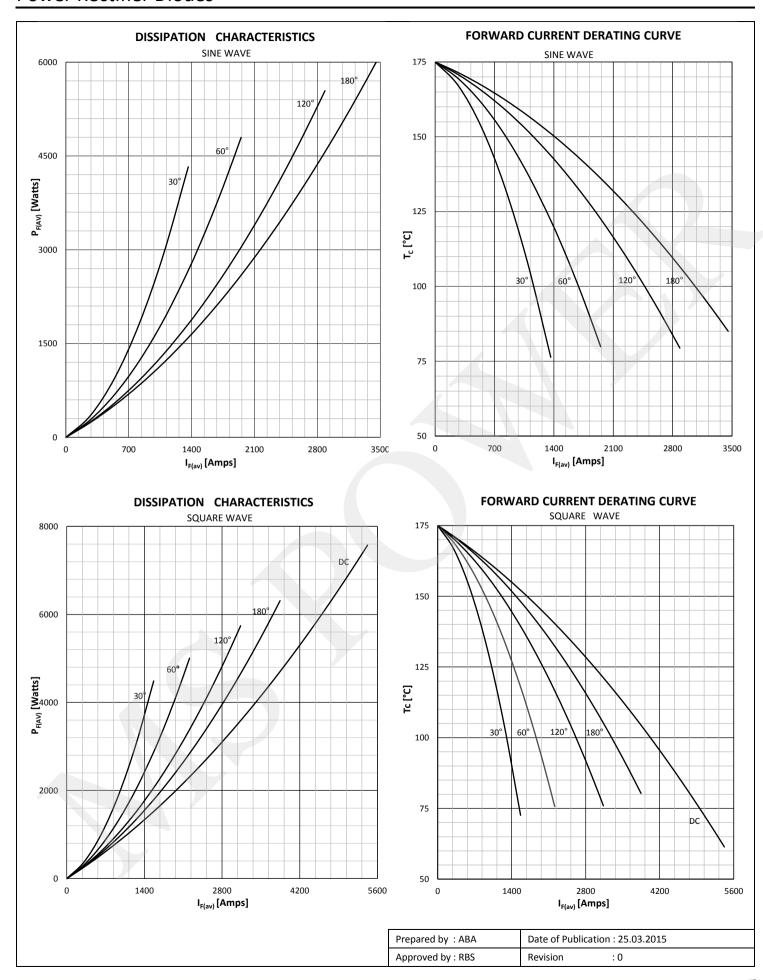


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		175	2200 - 2600	V
V RSM	Non-repetitive peak reverse voltage		175	2300 - 2700	V
I RRM	Repetitive peak reverse current	V= V RRM	175	75	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin,50 Hz, T <sub>c</sub> =85°C , double side cooled		3454	Α
I FRMS	RMS current	T <sub>c</sub> =85°C , double side cooled		5423	Α
		e forward current  Sine wave, 10 ms Without reverse voltage	25	37000	Α
I FSM	Surge forward current		175	35300	А
	I² t	Sine wave, 10 ms Without reverse voltage	25	6845 x 10 <sup>3</sup>	A²s
l² t			175	6230 x 10 <sup>3</sup>	A <sup>2</sup> s
VF	Forward voltage	On-state current = 2900A	25	1.20	V
V F(TO)	Threshold voltage		175	0.80	V
r <sub>F</sub>	Forward slope resistance		175	0.110	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, double side cooled		0.015	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.006	°C/W
Тj	Max. junction temperature			175	°C
T stg	Storage temperature			-40 175	°C
М	Clamping force			22 - 24	KN
W	Weight (Approx.)			520	gm

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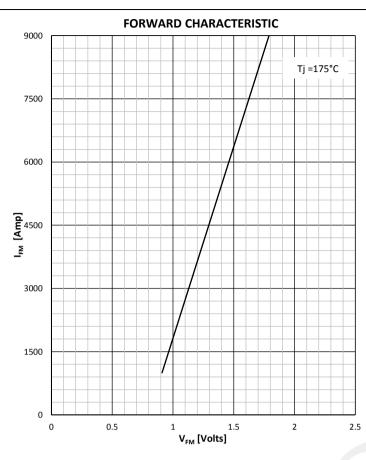
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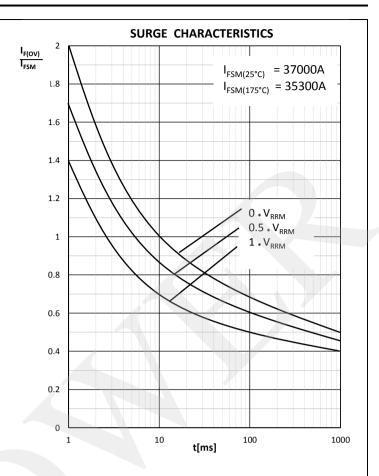


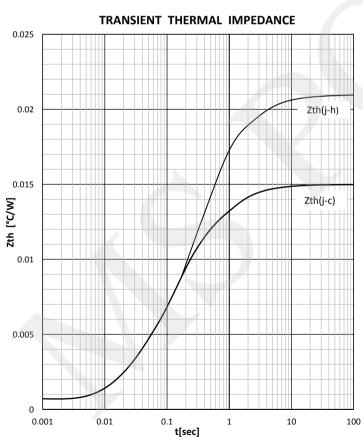


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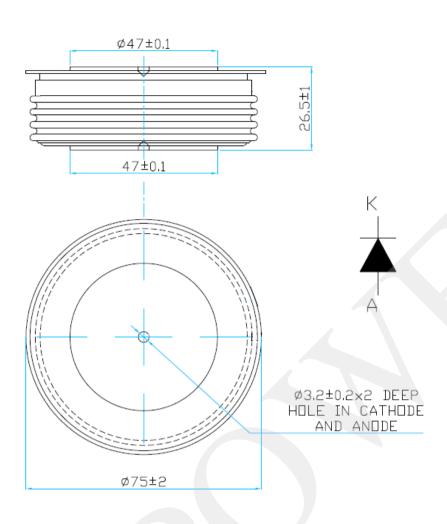


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### Outline



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