



$V_{DS} = 2.1 \text{ A}$

ELECTRICAL SPECIFICATIONS					
PARAMETER	SYMBOL	TEST CONDITIONS		VALUES	UNITS
$V_{F(1)}$	$V_{F(1)}$	2 A	$I = 25 \text{ C}$	0.69	V
		1.5 A		0.62	
		1 A		0.54	
		2 A	$I = 125 \text{ C}$	0.63	
		1.5 A		0.56	
		1 A		0.49	
$V_{F(2)}$	$V_{F(2)}$	$I = 25 \text{ C}$	$V_{GS} = 0 \text{ V}$	0.5	A
		$I = 125 \text{ C}$		26	
$V_{F(3)}$	$V_{F(3)}$	$I = I_{DC}$		0.36	V
F				104	$\Omega$
$C_{iss}$	C	$V_{GS} = 10 \text{ V}_{DC}, I = 25 \text{ C}, V_{DS} = 1 \text{ V}$		38	F
$t_{sw}$		$V_{GS} = 5 \text{ V}, I = 5 \text{ A}$		2.0	$\mu\text{s}$
$\theta_{JA}$	$\theta_{JA}$			10 000	$\text{V}/\text{V}$

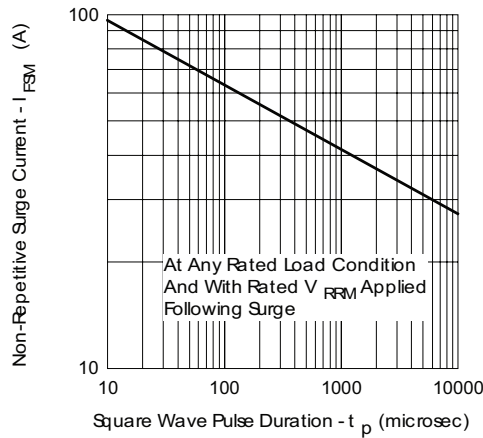
Note  
 (1)  $V_{GS} < 300 \text{ V}, V_{DS} < 2 \%$

THERMAL - MECHANICAL SPECIFICATIONS					
PARAMETER	SYMBOL	TEST CONDITIONS		VALUES	UNITS
$T_{stg}$	$T_{stg}^{(1)}$			-55 . 150	C
$T_{vj}$	$T_{vj}$	DC		80	C/
A				0.07	
				0.002	$\mu\text{s}$
		C $\mu\text{s}$ A ( $\mu\text{s}$ D-64)		$\nabla 2F$	

Note  
 (1)  $\frac{dP_{tot}}{dT_J} < \frac{1}{R_{thJA}}$



2.1 A



**ORDERING INFORMATION TABLE**

Device code	<b>VS-</b>	<b>20</b>	<b>M</b>	<b>Q</b>	<b>040</b>	<b>N</b>	<b>TR</b>	<b>PbF</b>
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

- 1** - HPP product suffix
- 2** - Current rating
- 3** - M = SMA
- 4** - Q = Schottky "Q" series
- 5** - Voltage rating (040 = 40 V)
- 6** - N = New SMA
- 7** -
  - None = Box (1000 pieces)
  - TR = Tape and reel (7500 pieces)
- 8** - PbF = Lead (Pb)-free

LINKS TO RELATED DOCUMENTS	
Datasheet	<a href="#">VS-20MQ040NPbF / 295018</a>
Product Outline	<a href="#">VS-20MQ040NPbF / 295029</a>
Application Note	<a href="#">VS-20MQ040NPbF / 295034</a>
Product Outline	<a href="#">VS-20MQ040NPbF / 295397</a>

## SMA

**DIMENSIONS** in millimeters (inches)

